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Erratum: "A large eddy simulation scheme for turbulent reacting flows" [Phys. Fluids A 5, 1282 (1993)] **FREE**

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Physics of Fluids 6, 1621 (1994)

<https://doi.org/10.1063/1.868449>



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Erratum: "A large eddy simulation scheme for turbulent reacting flows" [Phys. Fluids A 5, 1282 (1993)]

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(Received 28 November 1993; accepted 28 November 1993)

There is an error in Eqs. (15) and (16) in our paper entitled "A large eddy simulation scheme for turbulent reacting flows." The correct form for Eq. (15) should be

$$T_{ij} - \hat{\tau}_{ij} = \theta \left[-2C\Delta^2 \left(\alpha \frac{|S|}{\Delta^2} S_{ij} + \frac{|S|}{2} \nabla^2 S_{ij} + \frac{S_{kl} \nabla^2 S_{kl}}{|S|} S_{ij} \right) + \Delta^2 \nabla^2 (C|S|S_{ij}) + \frac{1}{3} \delta_{ij} \frac{\partial u_k}{\partial x_l} \frac{\partial u_k}{\partial x_l} \right] + O(\theta^2).$$

Consequently, Eq. (16) should be rewritten as

$$-2C\Delta^2 \left(\alpha \frac{|S|}{\Delta^2} S_{ij} + \frac{|S|}{2} \nabla^2 S_{ij} + \frac{S_{kl} \nabla^2 S_{kl}}{|S|} S_{ij} \right) + \Delta^2 \nabla^2 (C|S|S_{ij}) = \nabla u_i \cdot \nabla u_j - \frac{1}{3} \delta_{ij} \frac{\partial u_k}{\partial x_l} \frac{\partial u_k}{\partial x_l}.$$

We would like to thank Dr. Paul Durbin for pointing out this mistake.