Erratum

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Erratum to "impact of burner plenum acoustics on the sound emission of a turbulent lean premixed open flame"

Herff S, Pausch K, Nawroth H, et al. Impact of burner plenum acoustics on the sound emission of a turbulent lean premixed open flame. *International Journal of Spray and Combustion Dynamics* 2020; 12: 1–20. doi: 10.1177/1756827720956906

In the above-referenced article, the correct version of the equations (2), (7), (8), (9), (15), (16), (17), (18), and (20) are below:

$$\underline{\mathbf{H}} = \underline{\mathbf{H}}^i - \underline{\mathbf{H}}^v = \begin{pmatrix} \rho\mathbf{v} \\ \rho\mathbf{v}\mathbf{v} \\ \mathbf{v}(\rho E + p) \\ \rho\mathbf{v}c \end{pmatrix} + \frac{1}{Re_0}\begin{pmatrix} 0 \\ \underline{\boldsymbol{\tau}} \\ \underline{\boldsymbol{\tau}}\mathbf{v} + \mathbf{q} \\ \mathbf{J}_c \end{pmatrix} \tag{2}$$

$$\dot{\mathbf{W}} = \left(0, \mathbf{0}, \mathcal{Q}\overline{\dot{\omega}}_c, \overline{\dot{\omega}}_c\right)^T \tag{7}$$

$$\frac{\partial \breve{G}}{\partial t} + \left(\tilde{\mathbf{v}} + \frac{\rho_{\infty,u}}{\overline{\rho}}\hat{\tilde{s}}_{t,u}\breve{\mathbf{n}}\right)\cdot\nabla\breve{G} = 0 \tag{8}$$

$$\breve{\mathbf{n}} = -\frac{1}{|\nabla\breve{G}|}\left(\partial\breve{G}/\partial x,\ \partial\breve{G}/\partial y,\ \partial\breve{G}/\partial z\right)^T \tag{9}$$

$$\frac{\partial p^a}{\partial t} + \overline{a^2}\boldsymbol{\nabla}\cdot\left(\overline{\rho}\mathbf{v}^a + \overline{\mathbf{v}}\frac{p^a}{\overline{a^2}}\right) = \overline{a^2}q_c + q_e - \underbrace{\overline{a^2}\boldsymbol{\nabla}\cdot(\overline{\mathbf{v}}\rho_e)}_{q_{c\&e}} \tag{15}$$

$$\frac{\partial \mathbf{v}^a}{\partial t} + \boldsymbol{\nabla}(\overline{\mathbf{v}}\cdot\mathbf{v}^a) + \boldsymbol{\nabla}\left(\frac{p^a}{\overline{\rho}}\right) = \mathbf{q_m} \tag{16}$$

$$q_c = -\boldsymbol{\nabla}\cdot(\rho'\mathbf{v}')' \tag{17}$$

$$q_e = \frac{\partial p'}{\partial t} - \overline{a^2}\frac{\partial \rho'}{\partial t} \tag{18}$$

$$\begin{aligned}\mathbf{q_m} &= (\boldsymbol{\omega}\times\mathbf{v})' - \boldsymbol{\nabla}k' \\ &\quad + \boldsymbol{\nabla}\left(\frac{p'}{\overline{\rho}}\right) - \left(\frac{\boldsymbol{\nabla}p}{\rho}\right)' + \left(\frac{\boldsymbol{\nabla}\cdot\underline{\boldsymbol{\tau}}}{\rho}\right)'\end{aligned} \tag{20}$$