## Errata to "Numerical Methods for Chemically Reacting Fluid Flow Computation under Low-Mach Number Approximation"

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- 1. On page 168, the sentence on line 21, "We next review the formulation of ..." should have a reference to a crucial paper "M. BRAACK and R. RANNACHER, Adaptive finite element methods for low-Mach-number flows with chemical reactions, *VKI Lecture Series*, 1999–03, 1999".
- 2. On page 173, the third term on the right-hand side of Eq. (32) should be " $\rho(\sum_{i}^{N} Cp_{i}D_{i}\nabla Y_{i})\cdot\nabla T$ ".
- 3. On page 183, Eqs. (103), (104), (105), (106), and (107) should be as follows:

$$\frac{\mathbf{v}^{n+1} - \mathbf{v}^n}{\Delta t} = -(\mathbf{v} \cdot \nabla)\mathbf{v} + \frac{1}{\rho}\nabla \cdot \tau + \mathbf{g} - \frac{1}{\rho^{n+1}}\nabla p_{hyd}^{n+1}.$$
 (103)

$$\frac{\hat{\mathbf{v}}^{n+1} - \mathbf{v}^n}{\Delta t} = -(\mathbf{v} \cdot \nabla)\mathbf{v} + \frac{1}{\rho}\nabla \cdot \tau + \mathbf{g} - \frac{1}{\rho^{n+1}}\nabla p_{hyd}^n, \tag{104}$$

$$\frac{\mathbf{v}^{n+1} - \hat{\mathbf{v}}^{n+1}}{\Delta t} = -\frac{1}{\rho^{n+1}} \nabla \delta p_{hyd}^n. \tag{105}$$

$$\[1 + \frac{1}{2}\Delta t \left\{ \mathbf{v} \cdot \nabla - \frac{\mu}{\rho} \nabla^2 \right\} \] \delta \hat{\mathbf{v}}^k = -(\mathbf{v}^k - \mathbf{v}^n) + \frac{1}{2} \left( rhs_m^k + rhs_m^n \right) - \frac{\Delta t}{\rho^{k+1}} \nabla p_{hyd}^k , \tag{106}$$

$$rhs_m = -\Delta t \left[ (\mathbf{v} \cdot \nabla) \mathbf{v} - \frac{1}{\rho} \nabla \cdot \tau - \mathbf{g} \right], \tag{107}$$

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