Temperature Variations of Forced Convection in Porous Media for Heating and Cooling Processes: Internal Heating Effect of Viscous Dissipation

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We would like to correct the errors that appeared at the press stage. In Section 2 [line #18 in the paragraph containing Eq. (9)], the equation $\Phi = (\mu \vec{V}/k) \cdot \vec{V} + \mu \nabla^2 \vec{V}$ should read as $\Phi = (\mu \vec{V}/k) \cdot \vec{V} + \frac{1}{2} \mu_{\text{eff}} \sum_i \sum_j (\partial v_i / \partial x_j + \partial v_j / \partial x_i)^2$, with v_i the velocity components and x_i the Cartesian coordinates.

Also, there are errors in Eq. (22) and Eq. (27). The correct form of Eq. (22) should read as

$$\theta(Y) = (C'_1 + C'_2) Y^2 + C'_3 \cosh^2 \alpha Y + C'_4 \cosh \alpha Y + C'_5.$$

The correct form of Eq. (27) is

$$\begin{aligned} \text{Br}'_c = 4\text{Da} (\alpha \cosh \alpha - \sinh \alpha) & \left[2\alpha (\alpha^2 - 6) \cosh^2 \alpha + 15 \sinh \alpha \cosh \alpha - 3\alpha \right] / \\ & \left\{ \alpha \left[\alpha \cosh \alpha (4\alpha^2 - 39) + \alpha (8\alpha^2 - 66) \cosh^3 \alpha + (89 \cosh^2 \alpha + 16) \sinh \alpha \right] \right. \\ & \left. - 4\psi (\alpha \cosh \alpha - \sinh \alpha) \left[2\alpha (\alpha^2 - 6) \cosh^2 \alpha + 15 \sinh \alpha \cosh \alpha - 3\alpha \right] \right\}. \end{aligned}$$

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