Erratum to: Thermodynamically Consistent Limiting Forced Convection Heat Transfer in a Asymmetrically Heated Porous Channel: An Analytical Study

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In our recent paper (P. K. Mondal, 2013; Transp Porous Med (2013) 100:17–37), Section 2 contains the closed form expression of temperature profile (Eq. 16) and expressions of different terms like $I_1 - I_{11}$ are incorrect in the form in which it appears. The expression of temperature profile along with each of the expression of I_1 , I_6 and I_{11} contains typographical error. In this erratum we seek to rectify the errors, and present those in a corrected form as given below. However, rest of the formulations and results are correct.

$$\theta = \frac{(1-A)}{(1+A)} \hat{y} + Q \left[\frac{1}{2} - \frac{\hat{y}^2}{2} \right] + \frac{\text{Br}}{R_1 \cdot \text{Da}} \left[\left\{ \frac{1}{2} - \frac{\hat{y}^2}{2} \right\} + \frac{1}{2 \cosh^2 \beta} \left\{ \frac{1}{2} - \frac{\hat{y}^2}{2} \right\} \right. \\ \left. + \frac{1}{4 \beta^2 \cosh^2 \beta} \left\{ \frac{\cosh(2\beta)}{2} - \frac{\cosh(2\beta) \hat{y}}{2} \right\} \right. \\ \left. - \frac{2}{\beta^2} \left\{ 1 - \frac{\cosh \beta \hat{y}}{\cosh \beta} \right\} \right] \\ + \frac{R_2}{2\varepsilon} \left[\left\{ \frac{1}{2} - \frac{\hat{y}^2}{2} \right\} - \frac{1}{2\beta^2} \left\{ \frac{\cosh(2\beta)}{2} - \frac{\cosh(2\beta) \hat{y}}{2} \right\} \right] \quad (1)$$

$$I_1 = \frac{S}{R_1^{1/2}} [0] \quad (2)$$

$$I_6 = \frac{\text{Br}}{8 R_1^{3/2} \cdot \text{Da} \cdot \beta^2 \cdot \cosh^2 \beta} \left[\frac{\sinh(2\beta)}{\beta} - \left(\frac{3 \sinh \beta + \sinh(3\beta)}{3\beta \cosh \beta} \right) \right] \quad (3)$$

$$I_{11} = \frac{R_2}{8\varepsilon \cdot \beta^2 \cdot R_1^{1/2}} \left[\frac{\sinh(2\beta)}{\beta} - \left(\frac{3 \sinh \beta + \sinh(3\beta)}{3\beta \cosh \beta} \right) \right] \quad (4)$$

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