

CORRIGENDA

A V. Kuznetsov and K. Vafai, Analytical comparison and criteria for heat and mass transfer models in metal hydride packed beds, *Int. J. Heat Mass Transfer* **38**, 2873–2884 (1994).

The authors would like to correct the following typographical errors :

(1) On p. 2875, and is isotropic; should be deleted from lines 1 and 2 of the left-hand column and (VI) the hydride matrix is isotropic should be inserted below line 6 of the same column.

(2) Errors also occurred in the third column of Table 1 (p. 2876). The correct version of the table is printed below.

Table 1. Analytical criteria for the validity of the assumptions

Assumption	Analytical criteria for the validity of the assumptions	Formulation of the simplified problem employs the following assumptions	Corresponding equation number
VIII—local thermal equilibrium	$\frac{5p_{in}v_{\gamma}}{T_{in}L} \frac{M_{\gamma}(c_p)_{\gamma}}{\bar{R}_{\sigma\gamma}a_{\sigma\gamma}} \ll 1$	I–VII, IX–XIII	(16)
IX—steady state approximation	For heat transfer: $\frac{(c_p)_{\sigma}\rho_{\sigma}[T_{eq}(p_b, \kappa_0) - T_b]}{6E_{hyd}} \ll 1$	I–VIII, X, XI, XIV	(23)
	For filtration: $\frac{2M_{\sigma}}{1-\varepsilon} \frac{1}{(\kappa_{max} - \kappa_0)} \frac{\varepsilon\Delta p}{\bar{R}T} \ll 1$		(24)
X—a frontal model. This criterion also characterizes assumption X'	$\frac{1}{2} \frac{\Delta T_{eq}}{\bar{T}(p_b) - T_b} + \frac{1}{2} \frac{(c_p)_{\sigma}\rho_{\sigma}\Delta T_{eq}}{E_{hyd}} \ll 1$	I–VIII X', XI, XIV	(27)
	Different inlet boundaries additionally require: $\frac{T_i^2}{2B(T_i - T_b)} \frac{p_b^2 - p_i^2}{p_i^2} \ll 1$		(36)
XI—hydrogen pressure is assumed to be the same throughout the bed	$\frac{B}{A - \ln(p_b/P_0)} \left(\frac{B}{A - \ln(p_b/P_0)} - T_b \right) \frac{\gamma_{\sigma}}{p_b^2 E_{hyd}}$ $\times \frac{(\kappa_{max} - \kappa_0)\rho_{\sigma}}{\Lambda M_{\sigma}} \mu \bar{R} \frac{(1-\varepsilon)^2}{e^3} \left(\frac{1}{d} \right)^2 \ll 1$	I–X, XIV	(34)
XIV—convective heat transfer is negligibly small compared to conductive heat transfer	$\frac{(c_p)_{\gamma} M_{\gamma} \Delta T_{\gamma}}{\Delta h_{hyd}} \ll 1$	I–VII, IX–XIII	(17)