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Erratum

Erratum to: "One-dimensional drift-flux model and constitutive equations for relative motion between phases in various two-phase flow regimes" [International Journal of Heat and Mass Transfer 46 (2003) 4935–4948]

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The publishers regret that the following corrections were omitted in the published version. These corrections are printed below.

p. 4940 (first column, Eq. (45)) the text should read as the following:

$$\begin{aligned}\langle\langle V_{gj}\rangle\rangle &= (1-\langle\alpha_g\rangle)\langle v_r\rangle \\ &= v_{r\infty}(1-\langle\alpha_g\rangle)\{f(\langle\alpha_g\rangle)\}^2\frac{\mu_m}{\mu_f} \\ &\quad\times\frac{18.67}{1+17.67\{f(\langle\alpha_g\rangle)\}^{6/7}}\end{aligned} \tag{45}$$

p. 4940 (second column, Eq. (50)) the text should read as the following:

$$\begin{aligned}\langle\langle V_{gj}\rangle\rangle &= \sqrt{2}\left\{\frac{(\Delta\rho g_z+M_{F\infty})\sigma}{\rho_f^2}\right\}^{1/4} \\ &\quad\times\frac{18.67(1-\langle\alpha_g\rangle)^2\left\{\frac{\Delta\rho g_z(1-\langle\alpha_g\rangle)+M_F}{\Delta\rho g_z+M_{F\infty}}\right\}}{1+17.67(1-\langle\alpha_g\rangle)^{6/7}\left\{\frac{\Delta\rho g_z(1-\langle\alpha_g\rangle)+M_F}{\Delta\rho g_z+M_{F\infty}}\right\}^{3/7}}\end{aligned} \tag{50}$$

p. 4941 (first column, line 24) the text '$\langle r_b\rangle \approx D/2$' should read as the following:

$$\langle r_b\rangle \approx 0.9\times(D/2)$$

p. 4941 (first column, Eq. (56)) the text should read as the following:

$$\langle\langle V_{gj}\rangle\rangle = 0.35\left[\frac{\{\Delta\rho g(1-\langle\alpha_g\rangle)+M_F\}D}{\rho_f(1-\langle\alpha_g\rangle)}\right]^{1/2} \tag{56}$$

p. 4941 (first column, Eq. (57)) the text should read as the following:

$$\begin{aligned}\langle\langle V_{gj}\rangle\rangle &= \sqrt{2}\left\{\frac{(\Delta\rho g_z+M_{F\infty})\sigma}{\rho_f^2}\right\}^{1/4} \\ &\quad\times\frac{18.67(1-\langle\alpha_g\rangle)^2\left\{\frac{\Delta\rho g_z(1-\langle\alpha_g\rangle)+M_F}{\Delta\rho g_z+M_{F\infty}}\right\}}{1+17.67(1-\langle\alpha_g\rangle)^{6/7}\left\{\frac{\Delta\rho g_z(1-\langle\alpha_g\rangle)+M_F}{\Delta\rho g_z+M_{F\infty}}\right\}^{3/7}}\end{aligned} \tag{57}$$

p. 4941 (first column, Eq. (58)) the text should read as the following:

$$\langle\langle V_{gj}\rangle\rangle = 0.35\left[\frac{\{\Delta\rho g(1-\langle\alpha_g\rangle)+M_F\}D}{\rho_f(1-\langle\alpha_g\rangle)}\right]^{1/2} \tag{58}$$

p. 4941 (second column, Eq. (61)) the text should read as the following:

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$$\langle\langle V_{gj}\rangle\rangle = 0.35\left(\frac{\Delta\rho g_z D}{\rho_f}\right)^{1/2} \tag{61}$$

p. 4941 (second column, Eq. (63)) the text should read as the following:

$$\begin{aligned}\overline{V}_{gj} &= \langle\langle V_{gj}\rangle\rangle + (C_0 - 1)\langle j\rangle \\ &= \frac{1-\langle\alpha_g\rangle}{\langle\alpha_g\rangle + \left\{\frac{1+75(1-\langle\alpha_g\rangle)}{\sqrt{\langle\alpha_g\rangle}}\frac{\rho_g}{\rho_f}\right\}^{1/2}} \\ &\quad\times\left(\langle j\rangle + \sqrt{\frac{\Delta\rho g_z D(1-\langle\alpha_g\rangle)}{0.015\rho_f}}\right).\end{aligned} \tag{63}$$

p. 4941 (second column, Eq. (64)) the text should read as the following:

$$\overline{V_{gj}} \approx \frac{1-\langle\alpha_g\rangle}{\langle\alpha_g\rangle + 4\sqrt{\rho_g/\rho_f}}\left(\langle j\rangle + \sqrt{\frac{\Delta\rho g_z D(1-\langle\alpha_g\rangle)}{0.015\rho_f}}\right). \tag{64}$$

p. 4942 (second column, Eq. (74)) the text should read as the following:

$$C_0 \approx \frac{1-\langle\alpha_g\rangle}{\langle\alpha_g\rangle + \left\{\frac{1+75(1-\langle\alpha_g\rangle)}{\sqrt{\langle\alpha_g\rangle}}\frac{\rho_g}{\rho_f}\right\}^{1/2}}\left(1 + \frac{\sqrt{\frac{\Delta\rho g_z D(1-\langle\alpha_g\rangle)}{0.015\rho_f}}}{\langle j\rangle}\right) + 1. \tag{74}$$

p. 4942 (second column, Eq. (75)) the text should read as the following:

$$C_0 \approx \frac{1-\langle\alpha_g\rangle}{\langle\alpha_g\rangle + 4\sqrt{\rho_g/\rho_f}}\left(1 + \frac{\sqrt{\frac{\Delta\rho g_z D(1-\langle\alpha_g\rangle)}{0.015\rho_f}}}{\langle j\rangle}\right) + 1. \tag{75}$$