

Errata

Refined Engineering Beam Theory Based on the Asymptotic Expansion Approach

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THE following changes should be made to certain equations in this paper:

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The first term of Eq. (3a) should be lower case:

$$x_\alpha = y_\alpha/R, \quad x_3 = y_3/L \quad (3a)$$

The first term of Eq. (4c) should be preceded by $(1 + \nu)$:

$$(1 + \nu)\tau_{3\alpha} = \frac{1}{2}[\nu_{\alpha,3} + (1/\epsilon)\nu_{3,\alpha}] \quad (4c)$$

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The first term of the right-hand sides of Eqs. (14a) and (14b) should be $-U_{,3}$:

$$\varphi_1 = \frac{v_{3,1}(0,0,x_3)}{\epsilon} = -U_{,3}(x_3) + \epsilon^2 \chi_{,1}(0,0) \frac{Q}{I} \quad (14a)$$

$$\varphi_2 = \frac{1}{\epsilon I} \int_S x_1 v_3 dA = -U_{,3}(x_3) + \epsilon^2 \frac{\int_S x_1 \chi dA}{I} Q \quad (14b)$$

The third integral in Eq. (18a) is missing a subscript 3 and should read

$$\int_S \tau_{\alpha\alpha}^{(0)} dA = \int_{\partial S} x_\alpha \tau_{\alpha\beta}^{(0)} n_\beta ds - \int_S x_\alpha \tau_{3\alpha,3}^{(0)} dA \quad (18a)$$

The integral in Eq. (19a) should be preceded by ν :

$$N = \epsilon^2 \left[A W_{,3}(x_3) - l_a \frac{P}{I} + \nu \int_{\partial S} x_\alpha \bar{t}_\alpha ds \right] \quad (19a)$$

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The last term in Eq. (22), k , should be k_a :

$$IU_{,33}(x_3^0) = -M(x_3^0) + \epsilon^2 \left[\nu \int_{\partial S} (x_1 x_\alpha \bar{t}_\alpha - \frac{1}{2} x_\alpha x_\alpha \bar{t}_1) ds + \frac{P}{I} k_a \right] \quad (22)$$

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The term $3x_1 x_2^3$ in Eq. (A3) should be $3x_1 x_2^2$:

$$\chi = -(\frac{3}{4} + \nu/2)a^2 x_1 + \frac{1}{4}(x_1^3 - 3x_1 x_2^2) + x_1 x_2^2 \quad (A3)$$

The first term in Eq. (B6), $U^d(y_3)$, should be $U^d(x_3)$. The $\left(\frac{r}{l}\right)$ should be $\left(\frac{r}{l}\right)$:

$$U^d(x_3) = \frac{p^d}{24EI^d} y_3^4 + \frac{p^d}{2EI^d} l^2 y_3^2 \left[-\frac{1}{2} + \left(\frac{r}{l}\right)^2 \left(\frac{\nu}{2} + \frac{k_a}{I}\right) \right] + \frac{p^d}{EI^d} l^4 \left[\frac{5}{24} - \frac{1}{2} \left(\frac{r}{l}\right)^2 \left(\frac{\nu}{2} + \frac{k_a}{I}\right) \right] \quad (B6)$$

Passive-Pressure Drag Control in a Plane Wake

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FIGURES 8 and 9 were inadvertently transposed in this paper.

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