

Erratum: “Finite Element Modeling of Beams With Surface Energy Effects” [Journal of Applied Mechanics, 2011, 78(3), p. 031014]

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(1) Page 031014-9, in Table IV the solution corresponding to Wang et al. should be

$$\left(8 \frac{l_n}{H} - 8v \frac{(2\tau_0 + \lambda_0)}{EH} - 2 \frac{\tau_0 L^2}{EH^3} + 4 \frac{v^2 \tau_0}{EH} \right)$$

(2) Page 031014-9, in Eq. (A4), $\sigma_{xx}^e(z)$ should be changed to $\sigma_{xx}(z)$.

(3) Page 031014-9, Eq. (A5) should be changed to

$$\sigma_{xx}(z) = -\frac{2\tau_0}{H} - Ez\kappa + v \left(2 \frac{z\tau_0\kappa}{H} \right)$$

(4) Page 031014-9, in Eq. (A6), the term

$$v \left(2 \frac{z\tau_0}{H} \right)$$

should be changed to

$$v \left(2 \frac{z\tau_0\kappa}{H} \right)$$

(5) Page 031014-3, in Eq. (16), the (4,4) element of the first matrix $3I$ should be changed to $4I^2$.