Erratum

Lamb Waves in a Perpendicularly Cracked, Poroelastic Plate

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1. On page 5, the last line

$$-2\mu \int_0^a g(u, s)g(u, s)du \int_0^\infty \frac{y \cosh(zy)}{\sinh(hy)} I_0(uy) e^{-hy} dy$$

should be corrected as

$$-2\mu \int_0^a g(u, s)du \int_0^\infty \frac{y \cosh(zy)}{\sinh(hy)} I_0(uy) e^{-hy} dy$$

2. On page 12, second line

$$-\mathcal{D}_{s,f}(k)I_0(uk_s)\} + E(k)I_0(k_t u)I_0(k_t t) \Big] \frac{dk}{\Delta_0}, -\Gamma \int_0^\infty \frac{y I_0(uy) I_0(ty)}{\sinh hy} e^{-hy} dy$$

Comma after $\frac{dk}{\Delta_0}$ should be deleted.

3. On page 12, 6th line

$$m(t, s) = \frac{\tilde{\lambda} 2p_0}{s} \frac{(Q_w A_s - \tilde{\lambda} - 2\mu) \cosh(\kappa_s h) I_0(\kappa_f t) - (Q_w A_f - \tilde{\lambda} - 2\mu) \cosh(\kappa_f h) I_0(\kappa_s t)}{(\tilde{\lambda} + 2\mu)(A_s - A_f) \cosh(\kappa_s h) \cosh(\kappa_f h)} - \frac{s_0}{s},$$

should be corrected as

$$m(t, s) = \frac{\tilde{\lambda} 2p_0}{s} \frac{(Q_w A_s - \tilde{\lambda} - 2\mu) \cosh(\kappa_s h) I_0(\kappa_f t) - (Q_w A_f - \tilde{\lambda} - 2\mu) \cosh(\kappa_f h) I_0(\kappa_s t)}{(\tilde{\lambda} + 2\mu)(A_s - A_f) \cosh(\kappa_s h) \cosh(\kappa_f h)} - \frac{s_0}{s},$$

4. Page 6, Eq. (24), remove the parenthesis indicated by the red color

$$\frac{\pi}{h} \sum_{n=1}^{\infty} J_0\left(\frac{n\pi}{h} t\right) \sin\left(\frac{n\pi}{h} z\right) = \frac{H(z-t)}{\sqrt{z^2-t^2}} - \int_0^\infty \frac{\sinh(zy)}{\sinh(hy)} I_0(ty) e^{-hy} dy,$$

5. Page 7, top equation

$$v_x^* = \int_z^a \frac{h(t, \sigma) dt}{\sqrt{t^2 - z^2}} \quad \text{for } 0 < z < a,$$

should be corrected as

$$v_x^* = \int_z^a \frac{h(t, s) dt}{\sqrt{t^2 - z^2}} \quad \text{for } 0 < z < a,$$

6. Page 8, Eq. (31), second line, insert a parenthesis indicated by red color,

$$- \int_0^\infty t(A(k)\kappa_f^2 k_f^2 I_0(tk_f) + B(k)\kappa_s^2 k_s^2 I_0(tk_s)) dk = 0,$$

7. Page 10, Eq. (39), insert parentheses indicated by red color

$$\begin{aligned} C(k) = & [-R2k(k_f A_s(k_s^2 - k^2) \sinh(k_f h) \cosh(k_s h) - k_s A_f(k_f^2 - k^2) \sinh(k_f h) \cosh(k_s h)) \\ & + \frac{p_0}{s} 4\delta(k) k(k_f \{\tilde{\lambda}(k_s^2 - k^2) + 2\mu k_s^2\} \cosh(k_s h) \sinh k_f h \\ & - k_s \{\tilde{\lambda}(k_f^2 - k^2) + 2\mu k_f^2\} \cosh(k_f h) \sinh(k_s h))] / \Delta_0, \end{aligned}$$

8. Page 12 just below Eq. (45) delete (k) indicated by red color

$$\begin{aligned} K_1^*(u, t) = & K_1(u, t) + \int_0^\infty \left[\mathcal{A}_{f,s}^*(k) (\textcolor{red}{k}) I_0(uk_f) I_0(tk_f) + \mathcal{A}_{s,f}^*(k) I_0(uk_s) I_0(tk_s) \right. \\ & \left. + \mathcal{B}_{f,s}^*(k) I_0(uk_s) I_0(tk_f) + \mathcal{B}_{s,f}^*(k) I_0(uk_f) I_0(tk_s) + I_0(uk_t) \{ \mathcal{C}_{f,s}^*(k) I_0(tk_f) - \mathcal{C}_{s,f}^*(k) I_0(tk_s) \} \right] \frac{dk}{\Delta_0}, \end{aligned}$$

9. Page 13, just below Eq. (46), the red colored $g(1, s)$ should be corrected as $g(a, s)$

In order to evaluate $k(t)$, the integral in Eq.(46) must be determined first. Since the function $\textcolor{red}{g(1, s)}$ can only be obtained ...

10. Page 13, Eq. (51)

$$g\{a, (1+n)\delta\} = \frac{1}{\delta} \sum_{k=0}^n \frac{n(n-1), \dots, \{n-(k-1)\}}{(n+1)(n+2), \dots, (n+k+1)} C_k$$

in the above equation $, \dots, ($, dots,) should be replaced by $\cdots ($ cdots). It indicates the multiplication, but not commas.

So the equation should be corrected as follows

$$g\{a, (1+n)\delta\} = \frac{1}{\delta} \sum_{k=0}^n \frac{n(n-1) \cdots \{n-(k-1)\}}{(n+1)(n+2) \cdots (n+k+1)} C_k$$

11. Page 15, Eq. (54)

$$\tilde{D} = K_r \left(1 + \gamma \left(\frac{K_r}{K_f - 1} \right) \right).$$

should be corrected as

$$\tilde{D} = K_r \left(1 + \gamma \left(\frac{K_r}{K_f} - 1 \right) \right).$$

12. Page 20 in the Appendix, equation just before the last equation

$$A_{f,s} = \frac{-D \pm \sqrt{\frac{D^2 + 4\alpha^2 \beta \tilde{\rho}_{22}(\tilde{\lambda} + 2\mu)}{\gamma^2}}}{2\alpha\beta},$$

should be corrected as

$$A_{f,s} = \frac{-D \pm \sqrt{D^2 + \frac{4\alpha^2 \beta \tilde{\rho}_{22}(\tilde{\lambda} + 2\mu)}{\gamma^2}}}{2\alpha\beta},$$

In cover page.

Put Fachbereich Bauingenier and so on right next to Newark DE 19716, USA. Dr. Gilbert has two positions. One at U. Del and the second at Ruhr Univ. So do not separate them.

In this present form Fachberteich Bauingenier appears to be the second author. Fachberteich Bauingenier is a common noun, not a proper noun.

The authors should appear as follows.

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