Coupled bending-bending-torsion vibration of a pre-twisted beam with aerofoil cross-section by finite element method

by Bulent Yardimoglu and Daniel J. Inman

[Shock and Vibration 10(4) (2003), 223–230]

p. 224: in Eq. (13), upper limit of fourth integration should be \( L \) instead of \( T \).

p. 225: the second term at the right-hand side in Eq. (18) should be \( r_x \dot{\theta}'_z \) instead of \( r_s \theta'_z \).

p. 225: in caption of Fig. 2, change “Go-ordinate” to “Co-ordinate”.

p. 226: in Eq. (30), insert the missing term \( \theta_y \) between \( \theta_x \) and \( \psi_x \) so that it reads:

\[
dr = u, v, \theta_x, \theta_y, \psi_x, \psi_y, \theta_z
\]

p. 226: in Eq. (31), insert \( \equiv \) between \( \{q_e\} \) and \([C]\).

p. 226: in Eq. (42), first term in the fourth parenthesis should read \([P_{t_2})^T\] instead of \([P_{t_2}])^T\).

p. 226: the all letters appeared just after \( \theta \) in Eq. (43) should be subscript.

p. 227: in first column of Table 1: \( IG_{\xi \xi}, IG_{\eta \eta}, \xi T, \eta T \) should be \( IG_{\xi \xi}, IG_{\eta \eta}, \xi T, \eta T \), respectively.

p. 228: 4th line down from the top, change “\( \xi T \) and \( \eta T \)” to “\( \xi T \) and \( \eta T \).”

p. 228: in Ref. [17], Application should be Application.

p. 229: 16th and 17th lines down in Notation should combine.

p. 229: 2nd line up from the bottom, change ( ) to ( ).

p. 230: remove the 3rd line down in Appendix B.

p. 230: 5th line down in Appendix B, remove \( ^2 \) and \( d \) before \( A \) and change \( \eta^2 \) to \( r^2_\eta \) so that it reads:

\[
I_{TP} = I_{GP} + (r^2_\xi + r^2_\eta)A
\]

p. 230: 4th and 6th column headings in Table 4(a) should be \( IG_{\eta \eta} \) and \( IT \) instead of \( G \eta \eta \) and \( IT \), respectively.

p. 230: in Table 4(a), the polynomial coefficient 1.0423101576e-5 appeared in the column for \( A \text{(cm}^2 \text{)} \) having no \( p_i \) should locate as \( p_5 \) for \( I_T \text{(cm}^4 \text{)} \).

p. 230: the column heading except 1st and 5th in Table 4(b) should be \( IG_{\eta \eta}, JG, JG_{\eta \eta} \) instead of \( \xi T, \eta T, JG, JG_{\eta \eta} \) and \( JG_{\eta \eta}, \) respectively.

p. 230: the unit in the 4th column of Table 4(b) should be (cm\(^6\)) instead of (cm).

p. 230: in Table 4(b), to keep the same format for units as in Table 4(a), column headings should have units in the same line.