ERRATA for

Analytical solution for plane stress/strain deformation of laminates with matrix cracks

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1. 3rd line after (37), $H_{N+1,j} = 0$ should be $H_{N,j} = 0$. If i = N, there is no H_{N+1} in (37). The corrected text is as follows:

For the first lamina, i=1, $\tau_{xz}^{0,1}=0$ and $H_{0,j}=0$ on the bottom surface of the laminate because it is a free surface. For the mid-surface of the laminate, i=N, $\tau_{xz}^{N,N+1}=0$ and $H_{N,j}=0$ due to symmetry.

- 2. In (39), the 2nd term (negative) should be positive.
- 3. See the 4th term of (39), i.e., the 3rd square bracket. Inside the square bracket, the 2nd subscript of the 1st and 2nd terms (2) should be N-2. Compare to the 2nd bracket. The corrected equation (39) is as follows:

$$E_{x}^{i} \frac{\partial^{2} \widehat{u}(i)}{\partial x^{2}} + \frac{\left[H_{i-1,1}^{-1} - H_{i,1}^{-1}\right]}{h_{i}} \widehat{u}(1) + \frac{\left[H_{i,1}^{-1} - H_{i-1,1}^{-1} - H_{i,2}^{-1} + H_{i-1,2}^{-1}\right]}{h_{i}} \widehat{u}(2) + \dots + \frac{\left[H_{i,N-2}^{-1} - H_{i-1,N-2}^{-1} - H_{i,N-1}^{-1} + H_{i-1,N-1}^{-1}\right]}{h_{i}} \widehat{u}(N-1) + \frac{\left[H_{i,N-1}^{-1} - H_{i-1,N-1}^{-1}\right]}{h_{i}} \widehat{u}(N)$$

$$(39)$$

In our MATLAB code for (39):

i is the row number in K. j is the column number in K.

 $K_{i,j}$ multiplies the displacement vector $\hat{u}(i)$.

Then we called $F_{ij} = H_{ij}^{-1}/h_i$.

If i = j = 1 then $K_{11} = -F_{11}$ from the 2nd term in (39).

Then, $K_{1,N}$, $K_{N,1}$, $K_{N,N}$ follow a similar pattern.