Influence of surface stress on frequency of microcantilever-based biosensors

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There is a print error in equation (21) as follows. It should be the 1st derivatives in the bracket, not 2nd derivative.

WRONG form:

$$EI \frac{\partial^4 w}{\partial x^4} - \frac{\partial}{\partial x} \left(N_{(x)} \frac{\partial^2 w}{\partial x^2} \right) + \rho A \frac{\partial^2 w}{\partial t^2} = 0, \quad (21)$$

The CORRECT form:

$$EI \frac{\partial^4 w}{\partial x^4} - \frac{\partial}{\partial x} \left(N_{(x)} \frac{\partial w}{\partial x} \right) + \rho A \frac{\partial^2 w}{\partial t^2} = 0, \quad (21)$$