



This is the accepted version of the following article:

Wiebe L, Christopoulos C. 2015. A cantilever beam analogy for quantifying higher mode effects in multistorey buildings. *Earthquake Engineering and Structural Dynamics*, 44(11): 1697-1716.

which has been published in final form at DOI [10.1002/eqe.2549](https://doi.org/10.1002/eqe.2549). This article may be used for non-commercial purposes in accordance with the Wiley SelfArchiving Policy [<http://www.wileyauthors.com/self-archiving>].

**The following error has been identified in this manuscript and submitted to the journal for correction:**

In equation 10 of the article, the first hyperbolic sine should be replaced by a trigonometric sine function. The originally published equation was:

$$A_{n,\sinh} = [\cos \beta_n H + \cosh \beta_n H - 2(\beta_n H / R_f) \sinh \beta_n H] / [\sin \beta_n H + \sinh \beta_n H] \quad (10)$$

The corrected equation is:

$$A_{n,\sinh} = [\cos \beta_n H + \cosh \beta_n H - 2(\beta_n H / R_f) \sin \beta_n H] / [\sin \beta_n H + \sinh \beta_n H] \quad (10)$$

**The following error is included in this accepted version of the article, but was corrected prior to publication in the final form of this article that is available from the publisher:**

In Equation 30 and in Table III, the equation for the overturning moment in the first mode should have the final term cubed rather than squared:

The original equation was:

$$M_{1,max}(z) = M_{b,max} \left[ 1 - \frac{3}{2} \left( \frac{z}{H} \right) + \frac{1}{2} \left( \frac{z}{H} \right)^2 \right]$$

The corrected equation is:

$$M_{1,max}(z) = M_{b,max} \left[ 1 - \frac{3}{2} \left( \frac{z}{H} \right) + \frac{1}{2} \left( \frac{z}{H} \right)^3 \right]$$