**Explanatory document for change the equations**

wes-2021-81: Seismic soil-structure interaction analysis of wind turbine support structures using augmented complex mode superposition response spectrum method

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In this explanatory document, I would like to ask the editor to approve changes in Eqs. (1), (4), and (5) of the paper with the above title.

In Eq. (1), there are two minor typos as follows:

$$\left[\begin{matrix}C\_{TT}&C\_{TF}&-C\_{FF}h\\C\_{FT}&C\_{FF}+C\_{s}&C\_{FT}h\\-h^{'}C\_{TT}&h^{'}C\_{TF}&h^{'}C\_{TT}h+C\_{r}\end{matrix}\right] \rightarrow \left[\begin{matrix}C\_{TT}&C\_{TF}&-C\_{TT}h\\C\_{FT}&C\_{FF}+C\_{s}&C\_{FT}h\\-h^{'}C\_{TT}&h^{'}C\_{TF}&h^{'}C\_{TT}h+C\_{r}\end{matrix}\right]$$

$$\left[\begin{matrix}K\_{TT}&K\_{TF}&-K\_{FF}h\\K\_{FT}&K\_{FF}+K\_{s}&K\_{FT}h\\-h^{'}K\_{TT}&h^{'}K\_{TF}&h^{'}K\_{TT}h+K\_{r}\end{matrix}\right] \rightarrow \left[\begin{matrix}K\_{TT}&K\_{TF}&-K\_{TT}h\\K\_{FT}&K\_{FF}+K\_{s}&K\_{FT}h\\-h^{'}K\_{TT}&h^{'}K\_{TF}&h^{'}K\_{TT}h+K\_{r}\end{matrix}\right]$$

The same modification should be taken in Eq. (5).

In addition, we would like to modify Eq. (4) as:

$$F\_{ζ}=\left\{\begin{array}{c}\left(\frac{5.2}{0.2+100ζ}\right)^{-0.05T+0.35γ+0.3} \left(ζ<0.05\right)\\\left(\frac{2}{-3+100ζ}\right)^{0.15log\_{10}\frac{T}{1.5γ}+0.3} \left(ζ>0.05\right)\end{array}\right. \rightarrow F\_{ζ}=\left\{\begin{array}{c}\left(\frac{5.2}{0.2+100ζ}\right)^{-0.05T+0.35γ+0.3} \left(ζ\leq 0.05\right)\\\left(\frac{2}{-3+100ζ}\right)^{0.15log\_{10}\frac{T}{1.5γ}+0.3} \left(ζ>0.05\right)\end{array}\right.$$

As can be seen, these changes are both minor but especially for the changes in Eq. (1) is important for the readers to reproduce the results; thus, it would be acknowledged if the editor approve these changes.