

# Explanatory Document

## -the necessity of changing the typos in equations

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February 2, 2023

Dear Editors,

We admit that we have made mistakes in tow Equations in our paper.

The first one is in Equation (13)

$$\gamma_{yz}^2(\Delta yz, f) = \exp \left( -2a_{yz}r \sqrt{\left(\frac{f}{V_{\text{hub}}}\right)^2 + \left(\frac{0.12}{L_c}\right)^2} \right),$$

which is the exponential coherence model provided in IEC61400-1. Our mistake is that we use “ $r$ ” as the separation in yz plane. However,  $r$  is used in other equations to represent another variable. We want to replace  $r$  by  $\Delta yz$  as already denoted on the left side of the equation. The corrected Equation would be:

$$\gamma_{yz}^2(\Delta yz, f) = \exp \left( -2a_{yz}\Delta yz \sqrt{\left(\frac{f}{V_{\text{hub}}}\right)^2 + \left(\frac{0.12}{L_c}\right)^2} \right),$$

The second typo is in Equation (22):

$$\begin{aligned} \min_{a_{yz}, L_c} \quad & \sum_{n=1}^N \left[ \frac{1}{k_{1,n}} (\gamma_{yz}(f_n) - \text{coco}h_{11}(k_{1,n}, \Delta y, \Delta z))^2 \right], \\ \text{s.t.} \quad & k_{1,n} = \frac{2\pi f_n}{U_{\text{ref}}} \quad \text{and} \quad \Delta y = \Delta z = 20\text{m}. \end{aligned}$$

Here,  $\Delta yz$  should also be an entry for  $\gamma_{yz}$ , as defined in Equation (13). So, we want to replace  $\gamma_{yz}(f_n)$  by  $\gamma_{yz}(\Delta yz, f_n)$  in Equation (22). The corrected Equation will be

$$\begin{aligned} \min_{a_{yz}, L_c} \quad & \sum_{n=1}^N \left[ \frac{1}{k_{1,n}} (\gamma_{yz}(\Delta yz, f_n) - \text{coco}h_{11}(k_{1,n}, \Delta y, \Delta z))^2 \right], \\ \text{s.t.} \quad & k_{1,n} = \frac{2\pi f_n}{U_{\text{ref}}} \quad \text{and} \quad \Delta y = \Delta z = 20\text{m}. \end{aligned}$$

We are sincerely sorry for this mistakes and for any inconvenience caused by this. We wish this could be corrected.