EUROPEAN STANDARD

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EUROPÄISCHE NORM

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English Version

Railway applications - Aerodynamics - Part 5: Requirements and assessment procedures for aerodynamics in tunnels

Applications ferroviaires - Aérodynamique - Partie 5 : Exigences et procédures d'essai pour l'aérodynamique en tunnel

Bahnanwendungen - Aerodynamik - Teil 5: Anforderungen und Prüfverfahren für Aerodynamik im Tunnel

This corrigendum becomes effective on 11 January 2023 for incorporation in the official English version of the EN.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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1 Modification to 7.7.5, Formula (40)

Replace existing Formula (40) with:

$$p_{\mathrm{eq}} = \left(\frac{\sum_l h_{\mathrm{l}} \cdot p_{\mathrm{l}}^{\mathrm{k}}}{N_{\mathrm{c}}} \right)^{\frac{1}{k}} \tag{40}$$

2 Modification to A.3.3, Formula (A.9)

Replace existing Formula (A.9) with:

$$X_{\mathrm{h}} + \frac{\left(\mathrm{Ma} - X_{\mathrm{h}}\right)^2 \left(1 + X_{\mathrm{h}}\right)}{2} \left[1 - \frac{1 + X_{\mathrm{h}}}{\left(1 - B\right)^2} \right] - \frac{\zeta_{\mathrm{h}} \left(\mathrm{Ma} - X_{\mathrm{h}}\right)^2 \left(1 + X_{\mathrm{h}}\right)^2}{2\left(1 - B\right)^2} = 0 \tag{A.9}$$

3 Modifications to A.3.4, Formulae (A.13) and (A.14)

Replace existing Formula (A.13) with:

$$X_{\mathrm{fr}} + \frac{\left(\mathrm{Ma} - X_{\mathrm{fr}}\right)^2 \left(1 + X_{\mathrm{fr}}\right)}{2} \left[1 - \frac{1 + X_{\mathrm{fr}}}{\left(1 - B\right)^2} \right] - \left(\zeta_{\mathrm{h}} + \zeta_{\mathrm{fr}}\right) \frac{\left(\mathrm{Ma} - X_{\mathrm{fr}}\right)^2 \left(1 + X_{\mathrm{fr}}\right)^2}{2\left(1 - B\right)^2} = 0 \tag{A.13}$$

Replace existing Formula (A.14) with:

$$\Delta p_{\mathrm{fr}} = \left(\left[1 + \frac{\kappa - 1}{2} X_{\mathrm{fr}} \right]^{\frac{2\kappa}{\kappa - 1}} - 1 \right) p_0 - \Delta p_{\mathrm{N}} \tag{A.14}$$

4 Modification to A.3.6.1, Formula (A.26)

Replace existing Formula (A.26) with:

$$T_{\mathrm{f}} = \frac{C_{\mathrm{x,tu}}}{C_{\mathrm{x}}} \tag{A.26}$$