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+ Erratum

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ERRATUM



On topology optimization of design-dependent pressure-loaded three-dimensional structures and compliant mechanisms

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Errors were identified in the article¹ subsequent to its publication.

Equations (12)–(14) were written incorrectly in the article, the corresponding correct equations are

$$\tilde{\rho}_i = \frac{\sum_{j=1}^{N_e} v_j \rho_j w(\mathbf{x}_j)}{\sum_{j=1}^{N_e} v_j w(\mathbf{x}_j)},$$

$$w(\mathbf{x}_j) = \max\left(0, \ 1 - \frac{||\mathbf{x}_i - \mathbf{x}_j||}{R_{\text{fill}}}\right),$$
(12)

$$w(\mathbf{x}_j) = \max\left(0, \ 1 - \frac{||\mathbf{x}_i - \mathbf{x}_j||}{R_{\text{fill}}}\right),\tag{13}$$

$$\frac{\partial \tilde{\rho}_i}{\partial \rho_j} = \frac{v_j w(\mathbf{x}_j)}{\sum_{i=1}^{N_e} v_k w(\mathbf{x}_k)}.$$
(14)

These corrections do not change any results, discussions, or conclusions as they were implemented correctly in the codes.

REFERENCE

1. Kumar P, Langelaar M. On topology optimization of design-dependent pressure-loaded three-dimensional structures and compliant mechanisms. Int J Numer Methods Eng. 2021;122(9):2205-2220.

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