Correction to: Gas turbine computational flow and structure analysis with isogeometric discretization and a complex-geometry mesh generation method

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Computational Mechanics
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An earlier version of this article included a number of type-setting mistakes. These were corrected on October 16, 2020. The publisher apologizes for the errors made during production. The symbol “ Λ_n ” was incorrectly published as “ Γ_n ” in the equations (46) and (47). The correct equations are provided in this correction.

$$\{\hat{\mathbf{A}}_n\}_- = \mathbf{M}\mathbf{T}\{\Lambda_n\}_- \mathbf{T}^{-1}\mathbf{M}^{-1}, \quad (46)$$

$$\Lambda_n = \begin{bmatrix} u_n & 0 & 0 & 0 & 0 \\ 0 & u_n & 0 & 0 & 0 \\ 0 & 0 & u_n & 0 & 0 \\ 0 & 0 & 0 & u_n + c & 0 \\ 0 & 0 & 0 & 0 & u_n - c \end{bmatrix} \quad (47)$$

The original article can be found online at <https://doi.org/10.1007/s00466-020-01919-w>.

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Table 5 Mesh data for the quadratic NURBS and linear tetrahedral meshes

	NURBS	Tetrahedral
Number of elements	393,274	10,950,909
Number of points/nodes	716,706	2,037,853
Blade element height (mm)	0.3	0.6

Also under the section “4.3 Weak-boundary-condition operator”, the sentence “It Γ_n is computed, based on the eigenvalue decomposition $\Gamma_n \mathbf{T}^{-1}$ associated with hyperbolic equation systems (see, e.g., [196]), using the expression” above the equation (46) should read as “It is computed, based on the eigenvalue decomposition $\mathbf{T}\Lambda_n \mathbf{T}^{-1}$ associated with hyperbolic equation systems (see, e.g., [196]), using the expression” and the sentence “is the matrix of transformation from the vector $[\rho \mathbf{u}^T p]^T$ to $\mathbf{U}$, and $\{\Gamma_n\}_-$ is the negative part of Γ_n , which is easily computed.” below the equation (49) should read as “is the matrix of transformation from the vector $[\rho \mathbf{u}^T p]^T$ to $\mathbf{U}$, and $\{\Lambda_n\}_-$ is the negative part of Λ_n , which is easily computed”.

Further, the values in the Table 5 was published incorrectly. The correct table is provided in this correction (Table 5).

The original article has been corrected.

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