



Erratum: “Heat Transfer in Flat-Plate Boundary Layers: A Correlation for Laminar, Transitional, and Turbulent Flow” [ASME J. Heat Mass Transfer-Trans. ASME, 2020, 142(6), p. 061805; DOI: [10.1115/1.4046795](https://doi.org/10.1115/1.4046795)]

John H. Lienhard

In Eqs. (B4) and (B6), an exponent $-2/3$ is missing from the square brackets, e.g., Eq. (B4) should read

$$T_w - T_\infty = A(x) \int_0^x \left[1 - \left(\frac{\xi}{x} \right)^{3/4} \right]^{-2/3} q_w(\xi) d\xi \quad (\text{B4})$$

This typographical error does not carry into the results that follow.

In the last term of Eq. (15), the coefficients are incorrect. The correct expression is

$$\begin{aligned} \overline{\text{Nu}}_L \equiv \frac{\bar{h}L}{k} = & 0.037 \text{Pr}^{0.6} (\text{Re}_L^{0.8} - \text{Re}_u^{0.8}) + 0.664 \text{Re}_l^{1/2} \text{Pr}^{1/3} \\ & + \frac{1}{c} \underbrace{\left(\underline{0.0296} \text{Re}_u^{0.8} \text{Pr}^{0.6} - \underline{0.332} \text{Re}_l^{1/2} \text{Pr}^{1/3} \right)}_{\text{contribution of transition region}} \quad \text{for gases} \end{aligned} \quad (\text{15})$$

where the changed numbers are underlined. As a result, Eq. (16) should read

$$\overline{\text{Nu}}_L = \underbrace{470.7}_{\text{turb.}} + \underbrace{221.6}_{\text{lam.}} + \underbrace{259.2}_{\text{trans.}} = \underline{951.2} \quad (\text{16})$$

and the value 29.2% in the following line should be 27.2%.

No other result or conclusion of the paper is affected by these errors.