Correction to: Analytical modeling of transient temperature in powder feed metal additive manufacturing during heating and cooling stages

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Dear readers,

The author found some minor corrections in his online published article.

In Eq. (5) the k_i should be k , which denotes thermal conductivity.

Equation (5) has been corrected as the following

$$\theta_L(x, y, z, t) = \frac{P\eta}{2Rk\pi^{\frac{3}{2}}} \exp\left(\frac{Vx}{2k}\right) \int_{\frac{R}{2\sqrt{\kappa t}}}^{\infty} \exp\left[-\xi^2 - \left(\frac{V^2 R^2}{16\kappa^2 \xi^2}\right)\right] d\xi$$

In Eq. (8) the lower boundary of the integration $\frac{R}{2\sqrt{\pi t}}$ should be $\frac{R}{2\sqrt{\kappa t}}$.

Equation (8) has been corrected as the following

$$\theta_S(x, y, z, t, n) = \sum_{i=1}^n \left[h(T_i - T_0) + \varepsilon \sigma (T_i^4 - T_0^4) \right] \times \frac{A_i}{2Rk\pi^{\frac{3}{2}}} \int_{\frac{R}{2\sqrt{\kappa t}}}^{\infty} \exp(-\xi^2) d\xi$$

Those typos did not affect the calculation but might cause confusion to readers.

We apologize for this error.

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The original article can be found online at <https://doi.org/10.1007/s00339-019-2782-7>.

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