$\tanh(0) = 0$

$\tanh(4) = 1$

$\left(t_w - t_{gi}\right) - \frac{I}{k_{koll}} = -232.5\,K$

$I = 500\,s^{-3}\cdot kg$

$\sigma = 5.67 \times 10^{-8} K^{-4}\cdot m^{-2}\cdot W$

Vorgabe

$$\frac{\lambda_{Bl}}{\frac{W}{m\cdot K}}\cdot\frac{d}{dy}T_r(y) = \left[\frac{I}{\frac{W}{m^2}} + \frac{\alpha_{gi}}{\frac{W}{m^2\cdot K}}\cdot\left(T_r(y) - \frac{t_{gi}}{K}\right) + \tau\alpha\cdot\varepsilon_a\cdot\varepsilon_g\cdot\frac{\sigma}{\left(\frac{W}{m^2\cdot K^4}\right)}\cdot\left[\left(T_r(y) + 273.15\right)^4 - \left(\frac{t_H}{K} + 273.15\right)^4\right]\right]$$

$T_r(0) = \frac{t_0}{K}$

$\frac{x}{mm} = 20$

$DGL\_T\left(I, \alpha_{gi}, t_{gi}\right) := Gdglösen\left(y, \frac{x}{m}\right)$

$T_R := DGL\_T\left(I, \alpha_{gi}, t_{gi}\right)$

$T_R = f(\text{Unitless}) \rightarrow \text{Unitless}$

$T_R(0.01) = 44.15$