C.02.01.A1 – Modelo de Mistura Reativa Ideal

Aplicação em FTAF – Finite Time Air-Fuel Otto Engine Model

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https://github.com/CNThermSci/ApplThermSci Compiled on 2020-09-10 16h54m12s UTC





$$\bar{c}_p(T) = a_1 + a_2 T + a_3 T^2 + a_4 T^3,$$

$$T_{min} \leqslant T \leqslant T_{max}$$





$$\bar{c}_p(T) = a_1 + a_2 T + a_3 T^2 + a_4 T^3, \qquad T_{min} \leqslant T \leqslant T_{max} \qquad \neg$$

$$\bar{c}_v(T) = b_1 + b_2 T + b_3 T^2 + b_4 T^3, \qquad T_{min} \leqslant T \leqslant T_{max} \qquad \neg$$





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\bar{u}(T) = \left(b_1 T + \frac{b_2 T^2}{2} + \frac{b_3 T^3}{3} + \frac{b_4 T^4}{4}\right)_{T=0}^T, \qquad T_{min} \leqslant T \leqslant T_{max} \qquad \neg \\$$





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\bar{h}(T) = \left(a_1 T + \frac{a_2 T^2}{2} + \frac{a_3 T^3}{3} + \frac{a_4 T^4}{4}\right)_{T}^T + \bar{R} T_{ref}, \qquad T_{min} \leqslant T \leqslant T_{max} \qquad \neg \\$$





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• Verificação de limites;





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- Verificação de limites;
- Coef./func. próprios; e





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- Verificação de limites;
- Coef./func. próprios; e
- Produtos matriciais.





