

$$\psi_{nT}^{(k)} + \psi_{pT}^{(k)} = \psi_{nT}^{(k+1)} + \psi_{pT}^{(k+1)}, \quad k = 1..N-1 \quad (1)$$

$$\mu^{(k)} \frac{\partial \mu^{(k+1)}}{\partial T_k} + \mu^{(k+1)} \frac{\partial \mu^{(k)}}{\partial T_k} = 0, \quad k = 1..N-1, \quad (2)$$

!

(2).

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$$T_{eff} = T_{av} - \frac{\delta \rho}{\bar{\rho}} \frac{(T_h - T_c)}{2} - T_c \frac{\delta \alpha}{\bar{\alpha}} = T_{av} - \delta T, \quad (3)$$

$$\rho_h = \bar{\rho} + \delta \rho, \quad \alpha_h = \bar{\alpha} - \delta \alpha \frac{T_c}{T_h}$$

$$\begin{aligned}
3 \quad T_{av} &= \frac{T_h + T_c}{2}. \\
T_{av} &= T_{eff} \\
T_k &= T_{pr}^{(k)} + \delta^{(k)}.
\end{aligned}
\tag{4}$$

$$\begin{aligned}
& \delta^{(k-1)} \left(\mu^{(k+1)} \frac{\partial^2 \mu^{(k-1)}}{\partial T_k \partial T_k} + \frac{\partial \mu^{(k)}}{\partial T_k} \frac{\partial \mu^{(k+1)}}{\partial T_k} \right) + \delta^{(k)} \\
& \left(2 \frac{\partial \mu^{(k)}}{\partial T_k} \frac{\partial \mu^{(k+1)}}{\partial T_k} + \mu^{(k+1)} \frac{\partial^2 \mu^{(k)}}{\partial^2 T_k} + \mu^{(k)} \frac{\partial^2 \mu^{(k+1)}}{\partial^2 T_k} \right) + \\
& + \delta^{(k+1)} \left(\frac{\partial \mu^{(k)}}{\partial T_i} \frac{\partial \mu^{(k+1)}}{\partial T_{i+1}} + \mu^{(k)} \frac{\partial^2 \mu^{(k+1)}}{\partial T_i \partial T_{i+1}} \right) = \mu^{(k+1)} \frac{\partial \mu^{(k)}}{\partial T_i} + \mu^{(k)} \frac{\partial \mu^{(k+1)}}{\partial T_i}, \\
& k = 1 \dots N-1, \delta^{(0)} = 0 \quad \delta^{(N)} = 0.
\end{aligned}
\tag{5}$$

