

$$y^{ik} \left[T_{ik,s} - \frac{1}{2} (T_{i,s,k} + T_{k,i,s}) - T_{i^a}^b T_{ab}^c + T_{ik}^a T_{ab}^c \right]$$

$$-y^{ik} \epsilon + \frac{1}{2} \delta_e^i y^{sk} + \frac{1}{2} \delta_e^k y^{is} \quad \left| \quad -\frac{1}{2} y^{tk} T_{ts}^s \delta_e^i + \frac{1}{2} y^{it} T_{ts}^s \delta_e^k \right.$$

$$+ y^{tk} T_{ts}^s - y^{tk} T_{ts}^s$$

$$\frac{1}{2} \left| y^{tk} T_{ts}^s \right.$$

Diese Tennen T^{ik} genannt.

$$T_{ik}^{kl} + \frac{1}{3} (\delta_i^l T_{ks}^{as} - \delta_k^l T_{is}^{as}) = T_{ik}^{kl}$$

$$T_{i^a}^{as} + \frac{1}{3} T_{i^a}^{as} - \frac{1}{3} T_{i^a}^{as} = T_{i^a}^{al} = \sigma$$

Setzen $T_{ik}^{kl} = T_{ik}^{kl} + \frac{1}{3} (T_{i^a}^{as} \delta_k^l - T_{k^a}^{as} \delta_i^l)$

$$T_{ik}^{kl} = y^{ik} \epsilon + y^{sk} T_{se}^{ia} + y^{is} T_{es}^{ik} - y^{ik} T_{es}^{as}$$

$$= y^{ik} \epsilon + y^{sk} \frac{1}{3} (T_{st}^{ia} \delta_e^i - T_{st}^{ia} \delta_e^i) + y^{is} \frac{1}{3} (T_{st}^{ik} \delta_e^k - T_{st}^{ik} \delta_e^k)$$

$$y^{sk} \delta_e^i = y^{sk} \delta_e^i + y^{sk} \frac{1}{3} (4 T_{st}^{ia} - T_{st}^{ia}) + y^{is} \frac{1}{3} (4 T_{st}^{ik} - T_{st}^{ik}) \quad \left| \quad -1 \right.$$

$$y^{is} \delta_e^k = y^{is} \delta_e^k + y^{is} \frac{1}{3} (-4 T_{st}^{ik} + T_{st}^{ik}) + y^{sk} \frac{1}{3} (T_{st}^{ia} \delta_e^i + \frac{1}{3} y^{it} T_{st}^{ia}) \quad \left| \quad \frac{1}{2} \delta_e^i \right.$$

$$y^{is} \delta_e^k = y^{is} \delta_e^k + y^{is} \frac{1}{3} (-4 T_{st}^{ik} + T_{st}^{ik}) + y^{sk} \frac{1}{3} (T_{st}^{ia} \delta_e^i + \frac{1}{3} y^{it} T_{st}^{ia}) \quad \left| \quad \frac{1}{2} \delta_e^k \right.$$

$$\delta_e^i \left(-\frac{1}{3} y^{sk} T_{st}^{ia} + \frac{1}{2} y^{sk} T_{st}^{ia} - \frac{1}{6} y^{ks} T_{st}^{ia} \right)$$

$$\delta_e^k \left(-\frac{1}{3} y^{is} T_{st}^{ik} + \frac{1}{2} y^{is} T_{st}^{ik} - \frac{1}{6} y^{is} T_{st}^{ik} \right)$$

$$+ T_{es}^{ia} \left(-\frac{1}{3} y^{ik} + \frac{1}{3} y^{ik} \right) + \frac{1}{6} y^{sk} T_{st}^{ia} - \frac{1}{6} y^{is} T_{st}^{ik} \delta_e^k$$

$$\left. \begin{array}{l} \frac{1}{3} y^{sk} T_{st}^{ia} + \frac{1}{6} y^{ks} T_{st}^{ia} \\ -\frac{1}{2} y^{sk} T_{st}^{ia} \\ -\frac{1}{6} (y^{ks} + y^{sk}) \delta_e^i T_{st}^{ia} \end{array} \right| \delta_e^i$$

$$-U^{ik} \epsilon + \frac{1}{2} \delta_e^i U^{sk} + \frac{1}{2} \delta_e^k U^{is} = -\frac{1}{2} y^{tk} T_{ts}^s \delta_e^i + \frac{1}{2} y^{it} T_{ts}^s \delta_e^k$$

$$-U^{is} + \frac{1}{2} U^{si} + 2 U^{is} = -\frac{1}{2} y^{ti} T_{ts}^s + 2 y^{it} T_{ts}^s \quad \left| \quad 1 \quad -2 \quad \frac{3}{2} U^{si} = \frac{1}{2} y^{ti} T_{ts}^s + y^{it} T_{ts}^s \right.$$

$$-U^{sk} + \frac{1}{2} U^{ks} + \frac{1}{2} U^{ks} = -2 y^{tk} T_{ts}^s + \frac{1}{2} y^{kt} T_{ts}^s \quad \left| \quad -2 \quad 1 \quad -\frac{3}{2} U^{is} = -y^{tk} T_{ts}^s - \frac{2}{2} y^{it} T_{ts}^s \right.$$

$$-U^{ik} \epsilon = \frac{1}{2} \left[-y^{tk} T_{ts}^s - \left(-\frac{2}{3} y^{tk} T_{ts}^s - \frac{2}{3} y^{kt} T_{ts}^s \right) \right] \delta_e^i + \left(-\frac{2}{3} y^{tk} T_{ts}^s + \frac{1}{3} y^{kt} T_{ts}^s \right) \delta_e^i +$$

$$\left(-y^{ik} \epsilon + U^{ik} \epsilon \right) = \frac{1}{3} y^{sk} T_{ts}^s \delta_e^i - \frac{2}{3} y^{tk} T_{ts}^s \delta_e^i + \frac{1}{3} y^{kt} T_{ts}^s \delta_e^i$$

$$\frac{1}{3} (y^{kt} T_{ts}^s - y^{tk} T_{ts}^s) \delta_e^i$$

