LJ model & KW model

LJ; Tred
$$(x) = \alpha T_{c1} + (1-\alpha)T_{c2} + \alpha (1-\alpha) \xi$$

$$kW$$
; Tred $(x) = \chi^2 T_{c1} + (1-x)^2 T_{c2} + 2 \gamma_T \chi (1-x) T_{c12} kw$
 $(\beta_T = 1)$ $T_{c12}, kw = \int T_{c1} T_{c2}$

$$\mathcal{T} = \frac{S + T_{C1} + T_{C2}}{2T_{C12,kW}} EB'T13''$$

$$kW; \text{ Tred } (x) = x^{2}\text{Tc1} + (1-x)^{2}\text{Tc2} + x(1-x)(\$+\text{Tc1}+\text{Tc2})$$

$$= x^{2}\text{Tc1} + (1-x)^{2}\text{Tc2} + x(1-x)(\text{Tc1}+\text{Tc2})$$

$$+ x(1-x)\$$$

=
$$\propto T_{c1} + (1-x)T_{c2} + x(1-x)\xi \longrightarrow LJ$$
 model

Tred (x) = x Ta +
$$(1-x)$$
Tc2 + $x(1-x)$ Tc12, LJ

kW

Tred(x) =
$$\chi^2 T_{cl} + (1-\chi)^2 T_{c2} + 2 \sqrt{7} \chi (1-\chi) T_{cl2,kw}$$

= $\chi^2 T_{cl} + (1-2\chi + \chi^2) T_{c2} + 2 \gamma_7 \chi (1-\chi) T_{cl2,kw}$

$$T_{red}(x) = \chi^2 T_{cl} + (1-\chi)^2 T_{c2} + 2\chi(1-\chi) T_{cl2}$$

$$T_{red}(x) = \chi^{2} T_{cl} + (1-x) T_{c2} + \chi (1-x) (T_{cl} + T_{c2})$$

$$= \chi^{2} T_{cl} + (1-2x) + \chi^{2}) T_{c2} + (\chi - \chi^{2}) (T_{cl} + T_{c2})$$

$$= \chi^{2} T_{cl} + T_{c2} - 2\chi T_{c2} + \chi^{2} T_{c2}$$

$$+ \chi T_{cl} + \chi T_{c2} = \chi^{2} T_{cl} - \chi^{2} T_{c2}$$

$$T_{C12, |CW|} = \frac{\int_{C1}^{C1} T_{C2}}{\int_{C1}^{C1} T_{C2}}, \quad Y_{T} = \frac{\int_{C1}^{C1} + \int_{C2}^{C2}}{\int_{C1}^{C1} T_{C1}}$$

$$= \int_{C1}^{C1} \int_{C1}^{C1} T_{C1} \int_{C2}^{C1} \int_{C1}^{C1} \int_{C2}^{C1} \int_{C1}^{C1} \int_{C2}^{C1} \int_{C1}^{C1} \int_{C2}^{C1} \int_{C1}^{C1} \int_{C2}^{C1} \int_{C1}^{C1} \int_{C2}^{C1} \int_{C1}^{C1} \int_{C1}^$$

$$\chi^{2}T_{C1} + (1-\chi)^{2}T_{C2} + 2\delta_{T}\chi(1-\chi)T_{C12,kW}$$

=
$$\times T_{c1} + (1-x) T_{c2}$$

=
$$\chi^2 T_9 + (1-x)^2 T_{12} + \chi(1-x)(T_{11} + T_{12}) + \chi(1-x)^2$$

$$= \chi T_{G} + (1-\chi) T_{C2} + \chi (1-\chi) 3$$