Correction

Concerning the paper:

Characterization of polyethylene networks based on the jointed description of melting, swelling and deformation

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We give the correct notation of the Equations (28), (30), (33), (34), (35), (36), and (41).

$$-\frac{\Delta S_{\text{mix}}}{k_B} = -\frac{\Delta S_{\text{mix}}^i}{k_B} + n_p(K-1) \ln(\varphi_p) + n_p K \ln(ZK) + n_L \ln Z \quad (28)$$

$$n_p \left(\frac{\partial K}{\partial n_L} \right)_{T,P} = -\frac{y_L \varphi_p^{2/3}}{3y_p} (\varphi_p^{-1/3} - \varphi_p^{2/3} (I_1 I_{m1})^{-1/2}) \quad (34)$$

$$\begin{aligned} \frac{\Delta \mu_{\text{mix}}^L}{k_B T} &= -\frac{1}{k_B} \left(\frac{\partial \Delta S_{\text{mix}}}{\partial n_L} \right)_{T,P} \\ &= \ln(1 - \varphi_p) + \left(1 - \frac{y_L}{y_p} \right) \varphi_p \\ &\quad + n_p \left(\frac{\partial K}{\partial n_L} \right)_{T,P} \{ \ln(\varphi_p) + \ln(ZK) \} \\ &\quad + (K-1) n_p \left(\frac{\partial \varphi_p}{\partial n_L} \right)_{T,P} \varphi_p^{-1} \end{aligned} \quad (35)$$

$$\begin{aligned} &+ \frac{1}{Z} \left\{ n_p \left(\frac{\partial K}{\partial n_L} \right)_{T,P} Z + K n_p \left(\frac{\partial Z}{\partial n_L} \right)_{T,P} \right\} \\ &+ \ln(Z) + n_L \left(\frac{\partial Z}{\partial n_L} \right)_{T,P} \quad (30) \end{aligned}$$

$$\begin{aligned} n_L \left(\frac{\partial Z}{\partial n_L} \right)_{T,P} &= -Z^2 \left\{ \varphi_p n_L \left(\frac{\partial K}{\partial n_L} \right)_{T,P} \right. \\ &\quad \left. + (K-1) n_L \left(\frac{\partial \varphi_p}{\partial n_L} \right)_{T,P} \right\} \quad (36) \end{aligned}$$

$$\begin{aligned} n_L \left(\frac{\partial K}{\partial n_L} \right)_{T,P} &= -\frac{\varphi_p^{1/3}}{3} (1 - \varphi_p) (\varphi_p^{-1/3} - \varphi_p^{2/3} (I_1 I_{m1})^{-1/2}) \quad (33) \end{aligned}$$

$$\begin{aligned} \frac{\Delta \mu_{\lambda}^L}{k_B T} &= \frac{1}{k_B T} \left(\frac{\partial W}{\partial n_L} \right)_{T,P} \\ &= \frac{y_L}{y_p} \left(\frac{\lambda_{mo}}{\lambda_{m1}} \right)^2 \left(\frac{1}{1 - \eta_3^{1/2}} - a \phi_3^{1/2} \right) \varphi_p^{1/3} \quad (41) \end{aligned}$$