Erratum


There are some typographical errors in equations in Appendix A. For clarity, the corrected equations are presented here.

\[
\mu(P, T, X) = \mu_0 + (T - T_0) \frac{\partial \mu}{\partial T} + (P - P_0) \frac{\partial \mu}{\partial P} + X \frac{\partial \mu}{\partial X} \tag{1}
\]

\[
K(P, T, X) = K_0 + (T - T_0) \frac{\partial K}{\partial T} + (P - P_0) \frac{\partial K}{\partial P} + X \frac{\partial K}{\partial X} \tag{2}
\]

\[
\rho(P, T, X) = \rho_0(X) \left[ 1 - \alpha(T - T_0) + \frac{(P - P_0)}{K} \right] \tag{3}
\]

\[
\rho_0(X) = \rho_0|_{X=0} + X \frac{\partial \rho}{\partial X} \tag{4}
\]

\[
\alpha(T) = \alpha_0 + \alpha_1 T + \alpha_2 T^{-1} + \alpha_3 T^{-2} \tag{5}
\]

\[
\rho_0|_{X=0} = \rho_0, K_0, \frac{\partial \rho}{\partial X}, \frac{\partial \mu}{\partial X}, \frac{\partial K}{\partial X}, \frac{\partial \mu}{\partial T}, \frac{\partial K}{\partial T}, \frac{\partial \mu}{\partial P}, \frac{\partial K}{\partial P}, \alpha_0, \alpha_1, \alpha_2, \alpha_3 \tag{6}
\]

\[
\langle \rho \rangle = \sum \lambda_i \rho_i \tag{7}
\]

\[
\langle \mu \rangle = \frac{1}{2} \left[ \sum \lambda_i \mu_i + \left( \frac{\lambda_i}{\mu_i} \right)^{-1} \right] \tag{8}
\]

\[
\langle K \rangle = \frac{1}{2} \left[ \sum \lambda_i K_i + \left( \frac{\lambda_i}{K_i} \right)^{-1} \right] \tag{9}
\]

With the following standard relations

\[
v_p = \sqrt{\frac{K + \frac{4}{3} \mu}{\rho}} \quad v_s = \sqrt{\mu/\rho} \tag{10}
\]

\[
Q_\mu(P, T, \omega) = A \omega^a \exp(a(H^s + PV^s)/RT) \tag{11}
\]

\[
Q_P = \frac{3}{4} \frac{v_p^2}{v_s^2} Q_\mu \tag{12}
\]

\[
v_{anel}(P, T, \omega) = v(P, T, \omega) \left[ 1 - \frac{Q^{-1}(P, T, \omega)}{2 \tan(\pi \alpha/2)} \right] \tag{13}
\]