

ERRATA for 'THE STRUCTURE AND RHEOLOGY OF COMPLEX FLUIDS'

p. 56, Problem 1.2. In the first sentence, the words 'across the gap for a Newtonian fluid' should be inserted between 'profile' and 'in a cone-and-plate geometry.' in the Answer, the second sentence, the words 'By symmetry' should be replaced by 'For a viscometric flow'.

p. 63, the fourth line from the bottom of the first full paragraph, the words 'where a is the particle radius' should be added after ' $r/2a = 1$ '.

p. 58, problem 1.4, the words 'a biaxial extensional' should be replaced by 'an incompressible biaxial extensional.'

p. 69, in the box, 'Worked Example 10.5' should be 'Worked Example 10.2'.

p.85, second full paragraph, ninth line, 'Russel' should be 'Russell'.

p. 88, Eq. 2.42, the term ' $\epsilon\epsilon_0 \nabla \cdot \mathbf{E}$ ' should have a minus sign in front of it.

p. 125, Eq. 3-32, the 'p' on the term ' σ ' should be a superscript of σ rather than of ∇ ; i.e., this term should be ' σ^p '.

p.184, Problem 3.4(b), in the answer, after Eq. A3-28, replace ' T_0 is the reference temperature (at which we take a_T to be unity)' with 'and $T_0 = 248$ K'. Remove the sentence 'We can choose T_0 to be the temperature of the sag experiments, $T_0 = 298$ K, and T to be the temperature at which the viscosity of the polyisoprene is measured.' The next phrase 'According to Eq. (A3-28), we have,' should be replaced by 'To shift from $T = 298$ K (i.e., 25°C) to 373 K (i.e., 100°C), we compute the difference in the logarithms of the shift factors between these two temperatures; i.e.,' The next equation should be replaced by:

$$\log_{10} a_T(T=298) - \log_{10} a_T(T=373) = \frac{-8.86(298 - 248)}{298 - 146} - \frac{-8.86(373 - 248)}{373 - 146} = 1.965$$

In the next sentence, replace 'Therefore $a_T = 0.0012$ ', with 'Therefore $a_T(T=25^\circ\text{C})/a_T(T=100^\circ\text{C}) = 92.3$.' Drop the next sentence. In the next equation, the term ' $\frac{1}{a_T}$ ' should be replaced by ' $\frac{a_T(T=25^\circ\text{C})}{a_T(T=100^\circ\text{C})}$ ', and 846 should be replaced by 92.3. In the next sentence, ' $8.46 \times 10^7 P$ ' should be replaced by ' $9.23 \times 10^6 P$ '. This same substitution of ' $9.23 \times 10^6 P$ ' for ' $8.46 \times 10^7 P$ ' should be made in the equation starting with '1000 hr'. Finally, the last equation on this page should be

$$\eta_{gel} \approx 2 \times 10^{12} P$$

p.188, Problem 3.15, in the first sentence after Eq. A3-45, the term ' $\exp[-(t-t')]$ ' should be replaced by ' $\exp[-(t-t')/\tau]$ '

p. 264, the third line from the bottom of the third paragraph, the term ' ρ_s ' should be replaced by ' ρ_p ' in the definition of Re_p

p. 266, Eq. 6-7, replace ' η_s ' by ' $\eta(\phi)$ '.

p. 319, Problem 6.5, the words 'particle diffusivity' should be replaced by 'suspension relaxation time'.

p.634, Eq. A-9, the term ' $-\sigma_{\phi\theta} \cot \theta$ ' should be ' $+\sigma_{\phi\theta} \cot \theta$ '

IF YOU FIND OTHER ERRORS, PLEASE REPORT THEM TO:

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