Chemical Reactor Analysis and Design Fundamentals
2nd Edition
Errata for Second Edition, First Printing
July 6, 2020

1. p. 91. Change $\epsilon_1, \epsilon_2$ to $\epsilon'_1, \epsilon'_2$, respectively, in second to last displayed equation and sentence preceding it.

2. p. 103, third line from bottom. Change $\pi(n - 1)$ to $\pi(n + 1)$.

3. p. 279, second line of Example 6.1. Change “elementary and irreversible” to “exothermic, elementary, and irreversible.”

4. p. 287, last line. Change $-5.33$ to $-5.4$. Thanks to Sam Toan of U. Minnesota-Duluth for pointing out this erratum.

5. p. 366, 11 lines from bottom. Change $x = \Phi r$ to $x = \Phi r$. Thanks to Matthew Lenz of UCSB for pointing out this erratum.

6. p. 385, Table 7.4. In top block under Thiele modulus heading, replace $B$ with $\sqrt{B}$. Thanks to UCSB students for pointing out this erratum.

7. p. 405, seventh line from bottom. Replace “The catalyst pellet radius is 0.1 cm.” with, “The spherical catalyst pellet radius is 0.1 cm, and the densities are $\rho_p = 0.68, \rho_B = 0.60$ g/cm$^3$.”

10. p. 416, 11th line, change “bulk fluid density” to “bulk fluid viscosity.”

11. p. 426, Exercise 7.21. The rate constant should be $k = 1.3828 \times 10^{19} \exp(-13.500/T)$. The flowrate should be $Q_f = 792$ L/s. See also Example 7.6.

13. p. 477, Table 8.3, change units of $k_1$ from min$^{-1}$ to L/mol min.

15. p. 553. Change concentration (kmol/dm$^3$) to total amount (kmol) in y-axis labels and captions of Figures 9.33 and 9.34. Change figure labels $c_j$ to $n_j$. Thanks to Joel Andersson of UW for pointing out this erratum.

16. p. 566. Figure 9.41. Exchange the figure labels $c_A$ and $c_B$.

17. p. 616, Exercise 10.9. Change $J$ in the hint to:

$$J = \left[ \frac{0}{-D} - D - \frac{X_{A}}{X_{B}} \right]$$

18. p. 616, Exercise 10.10. Change the signs of the right-hand sides of the equations in (b) and (c).