Errata Second Edition

Chemical Reactor Analysis and Design Fundamentals 2nd Edition

Errata for Second Edition, Second Printing

July 16, 2019

- 1. p. 103, third line from bottom. Change $\pi(n-1)$ to $\pi(n+1)$.
- 2. pp. 205–207, Example 5.1. Replace all occurrences of "oxirane" with "trioxane." Thanks to Travis Arnold of UW for pointing out this erratum.
- 3. p. 287, last line. Change -5.33 to -5.4. Thanks to Sam Toan of U. Minnesota-Duluth for pointing out this erratum.
- 4. pp. 405–407, Example 7.6. The rate constant should be $k=1.3828\times 10^{19}\exp(-13,500/T)$. The flowrate should be $Q_f=792$ L/s. With the adjusted rate constant and flowrate given above, the reactor volume should be $V_R=233$ cm³ instead of L. Also change the units on the x-axis from L to cm³ in Figures 7.27 and 7.28. Thanks to Jason Haugh and the students at NC State for reporting this erratum. See also Exercise 7.21.
- 5. 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/cm³."
- 6. p. 416, 11th line, change "bulk fluid density" to "bulk fluid viscosity."
- 7. p. 425, Exercise 7.19, ninth line. Change "diameter" to "area." Thanks to Natalie Altvater of UW for pointing out this erratum.
- 8. 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.
- 9. p. 519. Second line from bottom. Change 0.05 to 0.025. Thanks to Travis Arnold of UW for pointing out this erratum.
- 10. p. 553. Change concentration (kmol/dm³) 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.
- 11. p. 566. Figure 9.41. Exchange the figure labels c_A and c_B .