

Errata for

Bequette, B.W., Process Control: Modeling, Design and Simulation, Prentice Hall (2003)

Chapter 1

On page 19, equation (1.4) should read

$$V(t) = V(0) + \int_0^t [F_1(\sigma) - F_2(\sigma)] d\sigma$$

Chapter 2

On page 70, student exercise 5; the referenced figure should be 2-5, not 2-4.

Chapter 3

On page 84, the eigenvalues of A_2 are $\lambda = -0.8366\text{hr}^{-1}$ and $\lambda = 0.4939\text{hr}^{-1}$. This is, the second one is positive, not negative.

On page 88, equation (3.16) should read

$$L[\delta] = 1$$

Chapter 5

On page 175, middle of the page, the line beginning with “we see from the necessary condition that $1+k_c > 0$, or $k_c > 0$.” The last condition should be $k_c > -1$.

On page 179, middle of the page, the result of using the final-value theorem should read

$$y(t \rightarrow \infty) = \frac{k_d \Delta l}{1 + k_p k_c}$$

Chapter 6

On page 206, last sentence, the inline equation should read $g_{CL}(s) = 1/(\lambda s + 1)$, not $g_{CL}(s) = 1/\lambda s + 1$.

Chapter 7

On page 232, equation (7.15) should read

$$PM > 0$$