Errata for First Printing

Process Dynamics and Control, 2nd Edition (2004) by Seborg, Edgar, and Mellichamp

Page	Item
7	1 st paragraph: Omit reference to Section 1.4.
45	Exercise 2.2: In Fig. E2.2, change " T_2 " to " T_i ".
48	Exercise 2.8, part (v): Change " qj " to " q_j ", two times.
86	Below Eq. 4-42, omit "From Example 4.1".
97	Eq. 4-95: In the second line, change " x_{22} " to " x_2 .
101	Exercise 4.11: Omit part b(i) and renumber remaining parts. Also, change " <u>form</u> " to "form".
102	Exercise 4.13: Replace the first equation by:
	$\frac{dh}{dt} = \frac{1}{\pi (D-h)h} \left(q_i - C_v \sqrt{h} \right)$
102	Exercise 4.17: Replace the second equation by:
	$\dot{S} = -\mu(S)X / Y_{X/S} + D(S_f - S)$
124	Exercise 5.7: In the equation, change T_{meas} to T . After the equation add, "where T is the temperature at the measurement point." Add to the Assumptions: "The temperature sensor exhibits no steady-state error."
125	Exercise 5.10: In the equation, replace "G" by "6".
131	Eq. 4-41: Change the equation number to 4-40.
133	Figure 6.2: The curve labeled "(i)" should have an "8" below the τ_a label.
151	Exercise 6.7: In Fig. E6.7b, add the first data point: $P_m=12\%$ at $t=0$. Change "-3" to "-3 %/psi" in the text.
152	Exercise 6.14: Move "when $M=2$, $K=3$, and $\tau=3$ " from part (d) to the end of part (a).
153	Exercise 6.17: Add the symbol for a computer exercise.
161	Equations for Y and X below (7-9): all of the n subscripts should be N .
169	Figure 7.8: omit " t_{73} " and the corresponding "+".
177	Table 7.3 caption: Change "Example 7.6" to "Example 7.5".

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183	Fig. E7.7: Change T' to T_m' .
194	Last entry in Table 8.1: should be "proportion-al".
204	Exercise 8.4; Note to the Instructor: the solutions of (d) and (e) require Ch. 9 material.
205	Exercise 8.10: Add the symbol for a computer exercise.
231	Exercise 9.9: In the second line, change "level transmitter" to "temperature transmitter". Add the following statement to the top of the right column: "For steady-state conditions, the standard thermometer and thermocouple-transmitter outputs are identical".
238	Example 10.2: In the 2 nd line of the Solution: change "2-44 to 2-46" to "2-50 to 2-52".
240	Fig. 10.6: Interchange the symbols, " x " and " x_c ".
261	Paragraph below (11-2): change $\tilde{X}'_d(s)$ to $X'_d(s)$ and $\tilde{X}'_u(s)$ to $X'_u(s)$, two times each.
266	Eq. 11-28: Add " $G_d D$ " immediately after the second equals sign.
276	Eq. 11-70: Change τ to τ_I .
282	Eq. 11-92: Should be: $-s+1+0.2K_c=0$.
	Corrections for the next line: " $s=1+0.2 K_c$ " and " $K_c <-5$ ".
293	Exercise 11.10: On the diagram, label the outputs of blocks G_1 , G_2 , and G_3 as Y_1 , Y_2 , and Y_3 , respectively.
293	Exercise 11.11: Under "Composition Transmitter Data", add "(i) the transmitter dynamics are negligible".
296	Exercise 11.21: Add the symbol for a computer exercise.
331	Exercise 12.9: Add the symbol for a computer exercise.
332	Exercise 12.11: Three lines above (a), replace "returned" by "retuned".
335	4^{th} line from top: change $\sin(\omega \tau)$ to $\sin(\omega t)$.
352	Eq. 13-61: change $G_c(s)$ to $G_c(j\omega)$.
354	Fig. 13.10: The log tic marks for the AR plot should be reversed, as per Fig. 13.9.
360	Exercise 13.9 (3rd line from bottom): change "airstream" to "air stream".
359-61	Add computer symbols to the following exercises in Ch. 13: # 5-8, 11-13, and 15-18.
407	Exercise 15.3: Move "Available Information" to after item "(c)".
410	Exercise 15.13: re-name "(c)" as "(b)".
666	Exercise 24.5(b): Replace "Fig. 24.8" with "Fig. 24.7".
699	First sentence: Add "recall" before "subscript T".