# Errata for First Printing Process Dynamics and Control, $2^{\text {nd }}$ Edition (2004) by Seborg, Edgar, and Mellichamp 

| Page | Item |
| :---: | :---: |
| 7 | $1^{\text {st }}$ 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 " $j_{j}$ ", 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 "form" to "form". |
| 102 | Exercise 4.13: Replace the first equation by: $\frac{d h}{d t}=\frac{1}{\pi(D-h) h}\left(q_{i}-C_{v} \sqrt{h}\right)$ |
| 102 | Exercise 4.17: Replace the second equation by: $\dot{S}=-\mu(S) X / Y_{X / S}+D\left(S_{f}-S\right)$ |
| 124 | Exercise 5.7: In the equation, change $T_{\text {meas }}$ 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 $\tau_{a}$ 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 $\boldsymbol{Y}$ and $\boldsymbol{X}$ 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". |


| 183 | Fig. E7.7: Change $T^{\prime}$ to $T_{m}{ }^{\prime}$. |
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| 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 $2^{\text {nd }}$ 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 $\tilde{X}_{d}^{\prime}(s)$ to $X_{d}^{\prime}(s)$ and $\tilde{X}_{u}^{\prime}(s)$ to $X_{u}^{\prime}(s)$, two times each. |
| 266 | Eq. 11-28: Add " $G_{d} D$ " immediately after the second equals sign. |
| 276 | Eq. 11-70: Change $\tau$ to $\tau_{\text {I }}$. |
| 282 | Eq. 11-92: Should be: $-s+1+0.2 K_{c}=0$. <br> 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 | $4^{\text {th }}$ 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 $T$ ". |

Right hand column: "approximation of higher-order, 142" should be indented only once.

