

March 27, 2025 Errata Sheet For
the first edition of
Control Systems: An Introduction
Please e-mail error reports to khalil@msu.edu

1. Page 3, Line 10 from the bottom: change “angel” to “angle”
2. Page 42, Figure 2-34, the denominator in the block at the lower right corner should be $1 - G_1(s)G_2(s)$
3. Page 75, Line 7 from the bottom: change “ $(\sigma + \sigma)$ ” to “ $(s + \sigma)$ ”
4. Page 88, Line 1: change “ $k = 0, 1, 2, 3, \dots$ ” to “ $k = 1, 2, 3, \dots$ ”
5. Page 92, Line 7 under Eq. (3.25): change “ $y_1(0+)$ ” to “ $y_1(0^+)$ ”
6. Page 124, Example 4-11, Line 7: change “ $\alpha = K_P K_m / \tau_m$ ” to “ $\alpha = (1 + K_P K_m) / \tau_m$ ”
7. Page 124, Example 4-11, Line 11: change “ $[K_P K_m / b, K_P K_m / a]$ ” to “ $[(1 + K_P K_m) / b, (1 + K_P K_m) / a]$ ”
8. Page 145, Problem 4.1(d): change the denominator from “ $s^2 + 1$ ” to “ $s^2 + 1$ ”
9. Page 146, Problem 4.4(a): insert “ K ” in the numerator. It should read as

$$GH(s) = \frac{K(s^2 + 2s + 2)}{(s - 1)(s + 4)}$$

10. Page 168, Figure 5-9, change “ p ” to “ $-p$ ”
11. Page 195, Table 5-8, Row 3, Column 3, change “Increases” to “Decreases”
12. Page 205, part (c) of Problem 5.15, change “compares” to “compare”
13. Page 311, Problem 7.9(b): change “30” to “10”
14. Page 314, Problem 7.26, line 1: change “folowing” to “following”
15. Page 314, Problem 7.26, line 9: change “ $K_{PD} = 16.98^6$ ” to “ $K_{PD} = 16.98 \times 10^6$ ”
16. Page 314, Problem 7.27, line 7: change “achive” to “achieve”
17. Page 325, Eqn (8.10b), change “ Dy_δ ” to “ Du_δ ”
18. Page 368, Problem 8.1, Line 4: insert the sentence “For Figures P2.4 and P2.7 take the inputs and outputs as in Problems 2.5 and 2.8, respectively.”
19. Page 373, problem 8.14, Line 2: change “mouned” to “mounted” and “mases” to “masses”
20. Page 374, Line 5: Multiply the expression of K by a negative sign. It should read as

$$K = -10^3 \times [1.3308 \quad 3.9564 \quad -5.5819 \quad 0.5438]$$
21. Page 374, Part (f) of Problem 8.14, Line 6: change “accelleration” to “acceleration”
22. Page 374, Part (h) of Problem 8.14: change “measued” to “measured”
23. Page 376, Lines 9 and 10: change “Invetigate” to “Investigate”
24. Page 393, Footnote: change “see” to “See”
25. Page 431, Problem 9.1, part (vi): change “ $y(k) = 0$ for $k \leq 0$ ” to “ $y(k) = 0$ for $k < 0$ ”
26. Page 432, Problem 9.4, Line 1: change “the the” to “the”
27. Page 445, first element of the z -transform column, change “ $\frac{zT}{z-1}$ ” to “ $\frac{z}{z-1}$ ”
28. Page 457, second column, Line 3 from the bottom: change “Nyqist” to “Nyquist”
29. Page 458, index of riderless bicycle: change “150, 275” to “150, 208, 275”