

Known Errors in the 6th Edition of Feedback Control of Dynamic Systems

Franklin, Powell and Emami-Naeini

| Date | Page | Corrections |
|----------|------|---|
| 10/30/09 | 18 | Problem 1.7(d): Remove the "force" at the end of the line. |
| 10/15/09 | 167 | Prob. 3.46: "Fig. 3.67" The K is misplaced in the box on the left. It should read $\frac{K(s+z)}{(s+p)}$. |
| 10/30/09 | 211 | Problem 4.15: Remove the list item "(a)" There is no longer a part (b). |
| 10/15/09 | 412 | Problem 6.71(d): "Fig. 6.59" should be "Fig. 6.37" |
| 10/15/09 | 538 | Problem 7.5: "Problem 7.2" should be "Problem 7.3" |
| 10/15/09 | 542 | Problem 7.29 (d): "Problem 7.14" should be "Problem 7.43" |
| 10/15/09 | 547 | Problem 7.42 (a): "Fig.7.93" should be "Fig.7.94" |
| 10/15/09 | 553 | Problem 7.54: "Fig.7.99" should be "Fig.7.100" |
| 10/15/09 | 554 | Problem 7.54 (d): "Fig.7.100" should be "Fig.7.101" |
| 10/15/09 | 657 | Problem 9.19: " T on the left in Fig. 9.65" should be " T_r " |
| 10/15/09 | 752 | Prob. 10.17 Table 10.2 "Data for Probem10.8" should be "Data for Problem 10.17" |
| 3/3/10 | 190 | "Let the sensor be -h" should be "Let the sensor be $-h$ " |
| 3/3/10 | 244 | Fig. 5.15: In figure title insert brackets to read $\frac{(s+0.1)^2+6^2}{s^2[(s+0.1)^2+6.6^2]}$ |
| 3/3/10 | 245 | Fig. 5.16: In figure title insert brackets to read $\frac{(s+0.1)^2+6^2}{s^2[(s+0.1)^2+6.6^2]}$ |
| 3/3/10 | 246 | Fig. 5.17: In figure title insert brackets to read $\frac{1}{s^2[(s+0.1)^2+6.6^2]}$ |
| 3/3/10 | 246 | Fig. 5.18: In figure title insert brackets to read $\frac{1}{s^2[(s+0.1)^2+6.6^2]}$ |
| 3/3/10 | 247 | Fig. 5.19: In figure title insert brackets to read $\frac{1}{s(s+2)[(s+1)^2+4]}$ |
| 3/3/10 | 248 | Fig. 5.20: In figure title insert brackets to read $\frac{1}{s(s+2)[(s+1)^2+4]}$ |
| 3/3/10 | 401 | Prob. 6.39: Remove extra paren in denominator to read $(s/0.0362 + 1)$ |
| 3/3/10 | 408 | Prob. 6.61: Insert missing \mathcal{S} to read: sensitivity function $\mathcal{S}(s)$ |
| 3/3/10 | 491 | 7th line from the bottom: "As a result, a step command will" should be "As a result, a step command will" |
| 3/3/10 | 521 | Line 15: $\mathbf{R}_w = \mathbf{\Gamma}\mathbf{\Gamma}^T$ |
| 3/17/10 | 293 | Prob. 5.40: $K_v \geq 16\frac{2}{3}\text{sec}$ should be $K_v \geq 16\frac{2}{3}\text{sec}^{-1}$. |
| 3/17/10 | 295 | Prob. 5.48: $(s - p)$ should be $(s + p)$. |
| 6/9/10 | 739 | Figure 10.87 x-axis label Sec should be sec. |
| 6/9/10 | 139 | Replace the array with : $\begin{array}{r} s^5: \quad 1 \quad \quad 2 \quad 6 \\ s^4: \quad 3 \quad \quad 6 \quad 9 \\ s^3: \quad 0 \quad \quad 3 \quad 0 \\ \text{New } s^3: \quad \epsilon \quad \quad 3 \quad 0 \quad \leftarrow \text{Replace zero by } \epsilon \\ s^2: \quad \frac{6\epsilon-9}{\epsilon} \quad \quad 9 \quad 0 \\ s: \quad 3 - \frac{3\epsilon^2}{2\epsilon-3} \quad \quad 0 \quad 0 \\ s^0: \quad 9 \quad \quad 0 \end{array}$ |
| 7/22/10 | 178 | Eq. (4.22) is missing a negative sign. Please insert a negative sign in front. |
| 8/25/10 | 193 | Eq. (4.89) should be: $\frac{Y(s)}{U(s)} = \frac{Ae^{-st_d}}{\tau s+1}$. |
| 10/14/10 | 379 | Eq. (6.67) should read: $VM = \frac{1}{S_{\max}}$ |

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|-------------|-------------|---|
| 7/7/11 | 130 | Lines 11-12: Line 11 should read: $\sigma > 0$ and Line 12 $\sigma < 0$ |
| 7/18/11 | 213 | Fig. 4.34(b): Move U after the K_3 block |
| 7/22/11 | 197 | Add missing K_u , Proportional: $k_p = 0.5K_u$ |
| 7/22/11 | 197 | Add missing K_u , PI: $k_p = 0.45K_u$ |
| 8/2/11 | 45 | Correct spelling: B teslas |
| 8/2/11 | 292 | Figure 5.68: dot over θ , not over K and should read: $K_T \dot{\theta}$ |
| 8/11/11 | 187 | Eq. (4.63): Add missing A to read: $k_p A$ |
| 8/11/11 | 269 | Rule 4: Replace -6 with -8 to read $\tan^{-1} \left(\frac{3}{-8} \right)$ |
| 8/11/11 | 330 | Last line: Change inequality to read: $K < 1$ |
| 8/11/11 | 345 | First line of text: Remove in to read: versus input |
| 8/11/11 | 357 | Line 11: Add missing e, change phas to phase |
| 8/11/11 | 357 | Line 12: Add missing paren to read: mag)) |
| 8/11/11 | 357 | Line 13: Add missing paren to read: phase)) |
| 8/19/11 | 538 | Add 'in' before Problem 7.3 |
| 11/10/11 | 626 | Add missing minus sign in front of the right hand side of the second eq. from bottom. |
| 7/20/12 | 215 | Line 3: K should be k_p and H_f should be H_y . Add missing arrow into the H_y block. |
| 7/20/12 | 174 | Line 23: $c_2 = 18$, $c_1 = 54$, $c_0 = 162$, $d_1 = 9$ |
| 8/2/12 | 291 | Line 9: add missing ψ to read ψ_r |
| 8/18/12 | 165 | 3rd line from the bottom: $y(t) = 1+$ should be $y(t) = 1-$ |