Errata for *Flight Dynamics, Second Edition*
November 28, 2023

p. 61:   Equation 2.3-25: Multiplier is $2c_R/3$ rather than $2/c_R$.

p. 72:   Equation 2.4-15: Δx_{cp} rather than Δy_{cp}.

p. 90:   Line 20: eq. 2.3-22 rather than eq. 2.3-21.
Line 22: (eq. 2.2-41) rather than eq. 2.2-32.

p. 92:   Line 5: (eq. 2.4-61) rather than (eq. 2.4-75).

p. 93:   Line 7: eq. 2.4-15 rather than eq. 2.4-6.

p. 97:   Line 5: replace "in eq. 2.4-92" with "used above".

p. 99:   Line 20: eq. 2.4-32 rather than eq. 2.4-22.

p. 248:   Last line: eq. 3.6-65 rather than eq. 3.6-96.

p. 267:   Equation 4.1-41: $\mathbf{F}_{34}$ rather than $\mathbf{F}_{41}$.

p. 397:   Equation 5.1-27, 1st row, 2nd element: $-g \cos \gamma_o$.

p. 400:   Equation 5.2-5, 1st row, 2nd element: $-g \cos \gamma_o$. 2nd row, 2nd element: $g \sin \gamma_o/V_o$.

p. 422:   4th paragraph, next to last line: M_q rather than Mq.

p. 652:   Figure 8.0-2 (d): *Draken* rather than *Darken*.

p. 656:   2nd line: eq. 4.2-21 rather than eq. 4.2-19.
4th line: eq. 4.2-23 to 4.2-26 rather than eq. 4.2-20 to 4.2-23.

p. 661:   Line 4: eq. 8.1-20 rather than eq. 8.1-18.

p. 662:   2nd line of eq. 8.1-26: delete $\Delta\mathbf{x}(t)$ after the first brackets.

p. 663   Equation 8.1-33, 2nd line: Insert $\mathbf{C}_F$ after $\mathbf{C}_{CL}$.
Equation 8.1-34, 2nd line: Insert $\mathbf{C}_F$ after $\mathbf{C}_{CL}$.
Equation 8.1-34, 3rd line: Insert $\mathbf{C}_F$ after $\mathbf{Y}_{CL}$.

p. 669   Equation 8.2-5: $\mathbf{S}(t)$ rather than $\mathbf{S}(s)$.
3rd new paragraph, 2nd and 3rd lines: (eq. 8.2-5 and 8.2-6) rather than (eq. 8.2-4 and 8.2-5).

p. 671:   4th paragraph, 1st line: eq. 8.1-20 rather than eq. 8.1-19. 2nd line: eq. 8.2-5 rather than eq. 8.2-4.

p. 672:   Eq. 8.2-23: Should be

$$-\begin{bmatrix} q_{11} & 0 \\ 0 & q_{22} \end{bmatrix} - \begin{bmatrix} 0 & 1 \\ f_{21} & f_{22} \end{bmatrix}^T \begin{bmatrix} s_{11} & s_{12} \\ s_{21} & s_{22} \end{bmatrix} - \begin{bmatrix} s_{11} & s_{12} \\ s_{21} & s_{22} \end{bmatrix} \begin{bmatrix} 0 & 1 \\ f_{21} & f_{22} \end{bmatrix}$$

$$+\begin{bmatrix} s_{11} & s_{12} \\ s_{21} & s_{22} \end{bmatrix} \begin{bmatrix} 0 \\ g_2 \end{bmatrix} \begin{bmatrix} \frac{1}{r} \end{bmatrix} \begin{bmatrix} 0 \\ g_2 \end{bmatrix}^T \begin{bmatrix} s_{11} & s_{12} \\ s_{21} & s_{22} \end{bmatrix} = 0$$

p. 674:   1st line: eq. 8.2-5 rather than eq. 8.2-4.

p. 683:   2nd paragraph, 2nd line: eq. 8.2-40 and 8.2-41 rather than 8.2-31 and 8.2-32.

p. 693:   2nd line from bottom: eq. 8.2-4 rather than eq. 8.2-6.

p. 703:   1st line: eq. 8.2-84 rather than eq. 8.2-94.

p. 706:   2nd line: eq. 8.2-4 rather than eq.8.2-6.

p. 707:   2nd paragraph, 1st line: "External Disturbances $\Delta\mathbf{w}(t)$ are included <u>in</u> the linear dynamic and output equations ..."

p. 708:   Kalman-Bucy Filter, 2nd paragraph, line 7: eq. 8.2-6 rather than eq. 8.2-5.
Line 9: eq. 8.2-5 and 8.2-6 rather than eq. 8.2-4 and 8.2-5.

p. 811:   Fig. 8.8-4, second legend: "neural," not "beural."