

ERRATA: Airplane Flight Dynamics and Automatic Flight Controls Part I

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- page 14, Section 1.4 Last paragraph, 1st line “ $\Theta = 90$)” should be “ $\Theta = 90$ ”
- page 26, Eqn (1.62) First equation set “ $\bar{\omega} = k\dot{\Theta}$ ” should be “ $\bar{\omega} = j_2\dot{\Theta}$ ”
- page 85 19th line “as well a positive” should be “as well as positive”
- page 104 Last paragraph, last line “right wheel deflection are activated” should be “right wheel deflection) are activated”
- page 108, Eqn (3.71) change $C_{l\delta_r} = C_{L\alpha_v} \alpha_{\delta_r} \eta_v \frac{S_v x_{v_s}}{Sb}$ to $C_{l\delta_r} = C_{L\alpha_v} \alpha_{\delta_r} \eta_v \frac{S_v z_{v_s}}{Sb}$
- page 141, Eqn (3.142) change “airplane, caused by” to “airplane, ΔC_L caused by”
- page 145, Eqn (3.156) change $\frac{\partial M_A}{\partial \left(\frac{q\bar{c}}{2U_1} \right)} = \frac{\partial C_m}{\partial \left(\frac{q\bar{c}}{2U_1} \right)} \bar{q}_1 S = C_{m_q} \bar{q}_1 S$ to
- $$\frac{\partial M_A}{\partial \left(\frac{q\bar{c}}{2U_1} \right)} = \frac{\partial C_m}{\partial \left(\frac{q\bar{c}}{2U_1} \right)} \bar{q}_1 S \bar{c} = C_{m_q} \bar{q}_1 S \bar{c}$$
- page 148, Section 3.2.10 First paragraph “changes in sideslip, β ” should be “changes in sideslip rate, $\dot{\beta}$ ”
- Second paragraph “sideslip angle, β ” should be “sideslip rate, $\dot{\beta}$ ”
- page 190 Line 6, “criterion (4.1)” should be “criterion (4.10)”
- Line 11, $C_{ZT\alpha} \ll C_{L\alpha}$ should be $C_{Tz\alpha} \ll C_{L\alpha}$
- page 206 Last paragraph, 3rd line, “in Example 1.” should be “in Example 1).”
- page 211 11th line, “degespectively” should be “deg respectively”
- page 216 15th line, “Appendix A..” should be “Appendix A.”
- page 220, Eqn (4.81) change $V_{mc} = \sqrt{\frac{2(N_{T1} + \Delta N_{D1})}{\rho C_{n\delta_r} \delta_{r_{max}} Sb}}$ to $V_{mc} = \sqrt{\frac{-2(N_{T1} + \Delta N_{D1})}{\rho C_{n\delta_r} \delta_{r_{max}} Sb}}$
- page 225 Line 20, “three of these” should be “four of these”
- page 235 Last line, “for a conventional airplane” should be “for a canard airplane”
- page 237 Line 7, “in Eqn (4.10)” should be “in Eqn (4.131)”
- page 242, Eqn (4.136) change $HM = C_h \bar{q} S_e \bar{c}_e$ to $HM = C_h \bar{q}_h S_e \bar{c}_e$
- page 244, Section 4.5.1 Last paragraph, change $\eta_h = \frac{\bar{q}}{q_h}$ to $\eta_h = \frac{\bar{q}_h}{\bar{q}}$
- page 253 Last paragraph, 1st line, “found by by” should be “found by”
- page 255 Last paragraph, 2nd line, “from Eqn 4.169)” should be “from

page 278

page 322, Eqn (5.35)

Eqn (4.169)”

3rd line from last line, equation “4.225” should be “4.225a”

change $B_u = -X_{\delta_e} \left\{ (U_1 - Z\dot{\alpha})M_q + Z\alpha + M\dot{\alpha}(U_1 + Zq) + Z_{\delta_e} X_\alpha \right\}$

to $B_u = -X_{\delta_e} \left\{ (U_1 - Z\dot{\alpha})M_q + Z\alpha + M\dot{\alpha}(U_1 + Zq) \right\} + Z_{\delta_e} X_\alpha$