

ERRATA: Airplane Design Part VII

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 (Errata Revised May 16, 2018)

Please check the website www.darcorp.com for updated errata

page 11, Line 16

‘Part VI’ should be ‘Part IV’

page 39, Figure 2.5

z_T should be negative as shown

page 44, Equation (2.39)

Should read:

$$S_h = \{-z_T T + z_D D + W(x_{mg} - x_{cg} + \mu_g z_{mg}) - L_{wf}(x_{mg} + x_{ac_{wf}} + \mu_g z_{mg}) - C_{mac_{wf}} \bar{q}_{rot} S \bar{C} + I_{yy_{mg}} \ddot{\Theta}\} / \{\bar{q}_{rot}(x_{mg} - x_{ac_h} + \mu_g z_{mg}) C_{L_{h_{max}}}\}$$

page 49, Equation (2.54)

Should read:

$$\left\{ \left(C_{n\beta} \right) (\beta_{cross} - \Psi_A) + C_{n\delta_a} \delta_a + C_{n\delta_r} \delta_r \right\} \bar{q} S b + Y_{ng}(x_{ng} + x_{cg}) - (Y_{mgL} + Y_{mgR})(x_{mg} - x_{cg}) = 0$$

page 50, Equation (2.57)

Should read:

$$\left\{ \left(C_{n\beta} \right) (\beta_{cross} - \Psi_A) + C_{n\delta_a} \delta_a + C_{n\delta_r} \delta_r \right\} \bar{q} S b + 0.025(\Psi_A + \Psi_{steer}) P_{ng}(x_{ng} + x_{cg}) + -0.025 \Psi_A P_{mg}(x_{mg} - x_{cg}) = 0$$

page 98, Line 3

‘23.305’ should be ‘23.205’

page 111, Line 4

‘Step 24’ should be ‘Step 28’

page 152, Equation (5.59)

Should read:

$$T \sin(\alpha + \phi_t) + C_L \bar{q} S - W \cos \phi - (W/g) U_1 Q_1 \sin \phi = 0$$

page 159, Line 8

‘Section 3.5’ should be ‘Section 5.3’

page 161, Equation (5.77) Should read: $RD = \left\{ (W/S)(2/\rho)(C_D^2/C_L^3)(\cos \gamma)^3 \right\}^{1/2}$

page 164, Line 7 ‘ $1.15V_{sPA}$ ’ should be ‘ $1.15V_s$ ’

page 177, Line 20 Should read ‘Note: These books are all published by:
Design, Analysis and Research Corporation, 1440
Wakarusa Drive, Suite 500, Lawrence, KS, 66049. Tel.
(785) 832-0434’