

ERRATA: Airplane Design Part VII

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page 11,
last sentence of 3rd para. Typical numerical values for gearing ratios are given in Table 4.1 of Part IV, not Part VI.

page 39, Figure 2.5 z_T should be negative as shown

page 44, Eqn. (2.39) Should read:

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

page 49, Eqn. (2.54) The 4th term on the left hand side should read:
'+ $Y_{ng}(x_{ng} + x_{cg}) - \dots$ '

page 50, Eqn. (2.57) The 4th term on the left hand side should read:
 $0.025(\Psi_A + \Psi_{steer}) P_{ng}(x_{ng} + x_{cg})$

page 98, 1st sentence Should read, "Civil: FAR 23.201, 23.203, 23.205, ..."

page 111, 3rd line Should read, "These methods are compatible with Step 28..."
not 24.

page 152, Eqn. (5.59) $T \sin(\alpha + \phi_t) + C_L \bar{q} S - W \cos \phi - (W/g) U_1 Q_1 \sin \phi = 0$

page 159,
Last sentence of 1st para. Should read, "See Section 5.3."

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

page 164, AS-5263 thrust required for level flight at $1.15V_s$, not $1.15V_{s_{PA}}$.