

ERRATA: Airplane Design Part VI

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 Year of Print, 2000
 (Errata Revised October 19, 2007)

- page 28, 4th line add “in radians” after wing twist angle.
- page 73, Eqn. (4.60) Add: $\varepsilon_n > 0$ for upwash and $\varepsilon_n < 0$ for downwash.
- page 88, Figure 4.52 b_f/b label on figure should be b_{fo}/b .
- page 89, Figure 4.53 Add: $\frac{b_{f1}}{b}=0.6$ to bottom plot margin.
- page 97, Figure 4.60 Figure title should read TAKE-OFF WEIGHT $\sim W_{TO}/1000$
- page 104 The word “inremental” should be replaced by “incremental”.
- page 115, Eqn. (4.88
and 4.90) 1.33 should be replaced by 1.328.
- page 146 The word “form” should be replaced by “from” (last sentence on page).
- page 205, Eqn. 6.48 Delete second row of numbers in the table. Third row corresponds to $(\eta_{inl/inc}SHP_{av} - P_{extr})$
- page 224, Figure 8.9 The NACA 63-005 airfoil should be a NACA 63-006 airfoil.
- page 229, Eqn. (8.7) $\Delta c_l = \eta_1 \left(c_{l\delta_{f1}} \right) (\delta_{f1}) \left\{ \left(\frac{c + c_1}{c} \right) \right\} + \eta_2 \left(c_{l\delta_{f2}} \right) (\delta_f) \left(\frac{c'}{c} \right)$
- page 259, 9th line add “at $\alpha = 0$ ” after leading edge flaps.
- page 272, Eqn. (8.48) $K_h = \frac{\left(1 - \left| \frac{h_H}{b} \right| \right)}{\sqrt[3]{\frac{2l_h}{b}}} \quad (\text{absolute value added})$

- page 273, Figure 8.65c All capital subscripts “H” should be lower case subscript “h”
- page 273, Figure 8.65c apply absolute value as in Equation 8.48
- page 281, Eqn. (8.55) The subscript “g” should be added to the variable ‘r’ in the second line of equation.
- page 342, Eqn. (8.108) 0.79 should be replaced by $\frac{\pi}{4}$.
- page 357, Table 9.1 Third row, second column 0.8 should be replaced by -0.8.
- page 401, variable description for Eqn. 10.47 Add ‘deg⁻¹’ after σ_{β_α} , σ_{β_Γ} , $\sigma_{\beta_{\varepsilon_t}}$
Add ‘deg’ after α_f , Γ , ε_t
- page 421, Eqn. (10.60)
- $$C_{l_{p_v}} = \frac{2}{b_w^2} \left[(z_v \cos \alpha - l_v \sin \alpha) \left[(z_v \cos \alpha - l_v \sin \alpha) - (Z_{ac_v} - Z_{cg}) \right] \right] C_{y_{\beta_v}}$$
- where: z_v and l_v are defined in Figure 10.27
- page 430, Figure 10.42 Y-axis values should be divided by -4
- page 461, Eqn. 10.123 should be multiplied by η_v
- page 486, Eqn. (10.149) $(c_{h\delta}^t)_{\alpha, \alpha_t}$ should be replaced by $(c_{h\delta}^t)_{\alpha, \delta_t}$
- page 509 In note, DARcorporation address should be 1440 Wakarusa Drive, Suite 500, Lawrence, KS 66049. 800 number should be removed.

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