

**ERRATA: Airplane Design Part VI**

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Year of Print, 2000  
(Errata Revised November 17, 2014)

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- page 28, 4<sup>th</sup> 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, 9<sup>th</sup> 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<sup>-1</sup>’ after  $\sigma_{\beta_\alpha}$ ,  $\sigma_{\beta_\Gamma}$ ,  $\sigma_{\beta_{\varepsilon_t}}$   
Add ‘deg’ after  $\alpha_f$ ,  $\Gamma$ ,  $\varepsilon_t$
- 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  $\eta_v$
- 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.