

**ERRATA: Airplane Design Part II**

Copyright © 1985-89 by Dr. Jan Roskam  
 Year of Print, 1985, 1989  
 (Errata Revised June 11, 1997)

page 102, Step 3.1, 2<sup>nd</sup> line ...falls into one of the eight catagories...

page 158, Step 6.10 Eqn. (6.1) should be Eqn. (6.2)

page 170,  
 Eqn (7.8) and (7.11-18) C<sub>l</sub> should be c<sub>l</sub>

pages 176 to 185 The example problems of Section 7.2 are incorrect. The  $K_{\Delta}$  factor was multiplied instead of divided to yield the  $C_{l_{max}}$  values for Step 7.4 of 7.2.1, 7.2.2, and 7.2.3. Each example will be addressed below.

*Section 7.2.1 Twin Engine Propeller Driven Airplane*

The results of step 7.4 should be:

	Take-off flaps		Landing flaps	
$\frac{S_{wf}}{S}$	0.3	0.6	0.3	0.6
$\Delta C_{l_{max}}$	0.58	0.29	2.32	1.16

$Z_{fh}$  should be  $\frac{Z_{fh}}{c}$ .

For Step 7.5, the referenced equations and figures are wrong:

- Eqn. (7.15) should be Eqn. (7.16).
- Eqn. (7.14) should be Eqn. (7.15).
- Eqn. (7.13) should be Eqn. (7.14).
- Figure 7.7 should be Figure 7.8.
- Figure 7.3b should be Figure 7.4.
- Eqn. (7.10) should be Eqn. (7.11).

Section 7.2.2 Jet Transport

The results of step 7.4 should be:

	Take-off flaps		Landing flaps	
$\frac{S_{wf}}{S}$	0.6	0.8	0.6	0.8
$\Delta C_{l_{max}}$	3.00	2.24	3.84	2.88

For Step 7.5, the referenced equations and figures are wrong:

Eqn. (7.10) should be Eqn. (7.11)

Figure 7.3b should be Figure 7.4

Section 7.2.3 Fighter

The results of Step 7.4 should be:

	Take-off flaps		
$\frac{S_{wf}}{S}$	0.4	0.8	1.0
$\Delta C_{l_{max}}$	4.00	2.000	1.60

These corrections will affect the results of each sample problem. It is left to the reader to complete the sample problems using the correct results of Step 7.4. The summary and referenced drawings of Step 7.6 may change due to these corrections.

pages 178, 181, and 184

Under Step 7.4,  $K_{\Delta}$  should be  $K_{\Lambda}$

page 267

Eqn (11.13)

$N_D = 0.75 N_{t_{crit}}$  should be  $N_D = 0.25 N_{t_{crit}}$

Eqn (11.14)

$N_D = 0.25 N_{t_{crit}}$  should be  $N_D = 0.10 N_{t_{crit}}$

Please check the website [www.darcorp.com](http://www.darcorp.com) for updated errata