ERRATA: Airplane Design Part I

Copyright © 1985 by Dr. Jan Roskam
Year of Print 1985
(Revised May 16, 2018)

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

page 61, Line 18 ‘2,000 ft’ should be ‘2,400 ft’

page 69, Equation (2.23) Should read: \[ D = (W_{PL} + W_{CREW}) + W_{PLexp} \]

page 98, Line 22 ‘\(C_{L_{TO_{max}}}\)’ should be ‘\(C_{L_{max_{TO}}}\)’

page 106, Line 3 ‘four factors’ should be ‘five factors’

page 115, Equation (3.18) Should read: \[ V_A = 1.1 V_{sPA} \]

page 138, Line 31 ‘x0.85’ should be ‘/1.1’

page 150, Equation (3.32) Should read: \[ RC_h = RC_0 \left(1 - \frac{h}{h_{abs}} \right) \]

page 152, Equation (3.38) Should read:

\[ \sin \gamma = \frac{T}{W} \left[ P_{dl} - \sqrt{P_{dl}^2 - P_{dl} + \left(1 + \left(\frac{L}{D}\right)^2\right)^{-1} \left(\frac{T}{W}\right)^2} \right] \]

page 186, Line 9 Should read ‘... specifies the groundrun as < 2,400 ft.’

page 186, Line 14 Should read ‘... fighter therefore: \(S_L = 1.9 \times 2,400 = 4,560 \text{ ft.}\)’

page 186, Line 16 ‘\(S_L = 3,800/0.6 = 6,333 \text{ ft}\)’ should be ‘\(S_L = 4,500/0.6 = 7,600 \text{ ft}\)’

page 186, Line 17 ‘\(V_A^2 = 21,000 \text{ kts}^2\)’ should be ‘\(V_A^2 = 25,000 \text{ kts}^2\)’

page 186, Line 20 ‘\(V_A = \sqrt{21,200(1.3/1.2)^2} = 158 \text{ kts}\)’ should be ‘\(V_A = \sqrt{25,000} = 158 \text{ kts}\)’
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’