ERRATA: Airplane Design Part I

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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: 

\[ D = (W_{PL} + W_{CREW}) + W_{PL_{exp}} \]

page 98, Line 22 ‘\( C_{L_{max TO}} \)’ 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: 

\[ RC_h = RC_0 (1 - h / h_{abs}) \]

page 152, Equation (3.38) Should read:

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

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

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

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

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

page 186, Line 20 ‘\( V_A = \sqrt{21,200(1.3/1.2)^2} = 158 \) kts’ should be
\( V_A = \sqrt{25,000} = 158 \) kts
page 197, Line 21

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’