

ERRATA: Airplane Aerodynamics and Performance

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

- cover & title page* 'Warren S. Bellows Distinguished Professor' should be 'J.L. Constant Distinguished Professor'
- page 62, Equation (3.25b)* Should read:
$$c_x = \frac{X}{\bar{q}c} = \int_0^1 \left(c_{p_{upper}} \frac{dz_{upper}}{dx} - c_{p_{lower}} \frac{dz_{lower}}{dx} \right) d\left(\frac{x}{c}\right)$$
- page 86, Figure 3.27* Last Figure should be 'g' instead of 'f'
- page 110, Line 3* 'FAR*23' should be 'FAR 23'
- page 144, Figure 5.6b* 'S = 27.0 ft' should be 'b = 27.0 ft'
- page 195, Line 5* Should read:
$$C_{Dat} (C_L/C_D)_{max} = 2C_{Dmin} + \frac{2C_{Lmin.drag}^2}{\pi Ae} - \frac{2C_{Lmin.drag}}{\pi Ae} \sqrt{\pi Ae C_{Dmin} + C_{Lmin.drag}^2}$$
- page 223, Equation (6.12a)* Should read: $s.f.c = 0.454(SHP_{t.o.})^{-0.055}$
- page 223, Equation (6.12b)* Should read: $s.f.c = 0.525(SHP_{t.o.})^{-0.079}$
- page 289, Line 12* 'thank' should be 'than'
- page 326, Figure 7.29* Y_1 should be measured from the X-axis, not the lower surface.
- page 404, Equation (9.68)* Should read: $ds = \int_{t_1}^{t_2} V \cos \gamma dt \approx V_{ave} (t_2 - t_1) = R_{CL}$
- page 447, Line 4* 'wing' should be 'wind'
- page 450, Line 6* 'A=2.20' should be 'A =2.02'

page 450, Line 6

' $h/\bar{c} = 0.33$ ' should be ' $h/\bar{c} = 0.329$ '

page 477, Figure 10.27

For the Take-off Weight vs Balanced Field Length plot, the top curve is for Sea Level and the bottom curve is for an altitude of 8,000 ft.

page 569, Line 8

Should read ' \dots the definition of the weight W_i : it is the airplane weight...'