

ERRATA: Airplane Design Part V

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(Revised May 16, 2018)

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

- page 43, Line 21* Should read ‘This corresponds to 473 kts at 35,000 ft or a dynamic pressure of 235 psf. At sea level, the corresponding value in KEAS is 263 kts. Since this is larger than 238 kts, $V_C = 263$ kts.’
- page 43, Line 27* Should read ‘ $V_D = 1.25 \times V_C = 1.25 \times 263 = 329$ kts.’
- page 54, Line 8* ‘ $V_C = 295$ kts’ should be ‘ $V_C = 263$ kts’
- page 54, Line 8* ‘ $V_D = 369$ kts’ should be ‘ $V_D = 329$ kts’
- page 61, Line 3* ‘Part III’ should be ‘Part IV’
- page 74, Equation (5.20)* Should read:
$$W_v = K_v S_v \left[3.81 \frac{\left\{ (S_v)^{0.2} V_D \right\}}{\left\{ 1,000 (\cos \Lambda_{1/2_v})^{1/2} \right\}} - 0.287 \right]$$
- page 89, Equation (6.13)* Should read:
$$W_{per\ prop} = K_{prop1} (N_{bl})^{0.391} \left\{ \frac{(D_p) (P_{TO_{per\ prop}})}{1,000} \right\}^{0.782}$$
- page 90, Line 2* Remove Line 2
- page 90, Line 5* Should read ‘ $P_{TO_{per\ prop}}$ is the required take-off power per propeller’
- page 90, Line 6* Remove Line 6
- page 90, Equation (6.14)* Should read:
$$W_{per\ prop} = K_{prop2} \left\{ D_p P_{TO_{per\ prop}} (N_{bl})^{1/2} \right\}^{0.782}$$

page 91, Line 6

Should read '= 6.55 lbs/gal for JP-4'

page 123, Line 20

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'

page 125, Line 10

Should read '4. Agricultural airplanes: Table A4.1.'

page 136, Table A4.1a

Row 48 should read

'Maximum Fuel Capacity 534 1177 300 661 1150 2535'

page 136, Table A4.1a

Row 49 should read

'Maximum Payload 1300 2866 900 1984 2100 4630'