

ERRATA: Airplane Flight Dynamics and Automatic Flight Controls Part II

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(Errata Revised May 2, 2018)

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

- page iii, Line 3* Remove “3.2.17 REVIEW OF IMPORTANT SIGN CONVENTIONS”
- page xxv, Line 15* Description for $M_{\dot{\alpha}}$: ‘Pich’ should be ‘Pitch’.
- page 577, Line 15* Should be: “...of personal computers. The AAA program can be purchased from DARcorporation, 1440 Wakarusa Drive, Suite 500, Lawrence, Kansas 66049, USA.”
- page 584, Equation (7.19)* “ α_W ” should be “ α ”
- page 627, Figure 8.1* Ekevator should be elevator
- page 631, Figure 8.4* In (amplitude ratio or magnitiude scale) “magnitude” is misspelled
- page 637, Figure 8.8* “ $X_1(s)$ ” should be “ $X_1(t)$ ”
- page 649, Line 3* $\sqrt{21.25}$ should be $\sqrt{1.25}$
- page 651, Figure 8.22* $\left(\frac{s+100}{100}\right)$ should be $\left(\frac{100}{s+100}\right)$
- page 653, Equation (8.82)* Should be: $G(s) = \frac{1600(s+0.1)(s+30)}{(s+2)(s+10)(s+120)}$
- page 660, Figure 8.32* Point on the horizontal axis should be labeled as:
 $e^{+0.2\pi i/2} = 1.37$
- page 681, Figure 8.46* The vertical dash line intersects the frequency axis at 2.7 rad/sec, not 1.7 rad/sec.
- page 692, Figure 9.4* “ $\frac{\dot{\psi}(s)}{\delta_r(s)}$ ” should be “ $\frac{s\psi(s)}{\delta_r(s)}$ ”

page 692, Figure 9.4

“ $\dot{\psi}(s)$ ” should be “ $s\psi(s)$ ”

page 707, Equation (9.64)

Should be:

$$\sigma = \frac{[\sum \{Poles\ of\ KG(s)H(s)\} - \sum \{Zeros\ of\ KG(s)H(s)\}]}{(n - m)}$$

page 711, Line 9

Change 0 db to -180 db

page 717, Table 9.2

In row #8 under the Pole-Zero Plot column, change -1/K to -K.

page 759, Line 29

“Figure 9.35” should be “Figure 9.36”

page 760, Line 27

Should be: $G(s)H(s) = \frac{-32}{(1+s)(s^2 - 1.6s - 16)}$

page 763, Line 18

Should read “... and the actual bank angle sensed by a vertical gyro...”

page 780, Figure 11.1

“ $\frac{\dot{\psi}(s)}{\delta_r(s)}$ ” should be “ $\frac{s\psi(s)}{\delta_r(s)}$ ”

page 791, Figure 11.11

“ $\frac{s\dot{\theta}(s)}{\delta_e(s)}$ ” should be “ $\frac{s\theta(s)}{\delta_e(s)}$ ”

page 830, Figure 11.56

Add a transfer function $\frac{1}{s}$ between the first and second feed back loop

page 830, Figure 11.56

The output of the control system is ‘ θ ’ instead of ‘ $\dot{\theta}$ ’.