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$$\begin{bmatrix} \theta \\ \Delta\theta \\ d_1 \\ d_2 \end{bmatrix} (i+1) = \begin{bmatrix} 1-\beta & 1 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} \theta \\ \Delta\theta \\ d_1 \\ d_2 \end{bmatrix} (i) + \begin{bmatrix} 0 \\ b_{nom} \\ 0 \\ 0 \end{bmatrix} I_u(i) + \begin{bmatrix} 0 \\ w_u \\ w_1 \\ w_2 \end{bmatrix} (i), \quad (8.84)$$

$$\tilde{\theta}(i) = \theta + \tilde{\theta}_m$$

where $b_{nom} = \underline{H}_{s,nom} F_{u,nom} T^2 / J_{nom}$ [rad/A] is the known command gain, $\Delta\theta \cong \omega_u T$ is an angle, ...

Corrigendum

$$\begin{bmatrix} \theta \\ \Delta\theta \\ d_1 \\ d_2 \end{bmatrix} (i+1) = \begin{bmatrix} 1-\beta_{nom} & 1 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} \theta \\ \Delta\theta \\ d_1 \\ d_2 \end{bmatrix} (i) + \begin{bmatrix} 0 \\ b_{nom} \\ 0 \\ 0 \end{bmatrix} I_u(i) + \begin{bmatrix} 0 \\ w_u \\ w_1 \\ w_2 \end{bmatrix} (i), \quad (8.84)$$

$$\tilde{\theta}(i) = \theta + \tilde{\theta}_m$$

where $\beta_{nom} = T / \tau_{g,nom}$, $b_{nom} = \underline{H}_{s,nom} F_{u,nom} T^2 / J_{nom}$ [rad/A] is the known command gain, $\Delta\theta \cong \omega_u T$ is an angle, ...

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$$\hat{\phi}(i) = \frac{J_{nom}}{\underline{H}_{s,nom} T}. \quad (8.86)$$

Corrigendum

$$\hat{\phi}(i) = \frac{J_{nom}}{\underline{H}_{s,nom} T} \hat{d}_1(i). \quad (8.86)$$

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$$H = \begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}, A_d = \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}, A = \begin{bmatrix} 1-\beta & 1 \\ 0 & 1 \end{bmatrix}, B = \begin{bmatrix} 0 \\ 1 \end{bmatrix}, C = [1 \quad 0] \quad (8.88)$$

$$Q = \begin{bmatrix} q_{11} & q_{12} \\ q_{21} & q_{22} \end{bmatrix}, P = [p_1 \quad p_2]$$

Corrigendum

$$\begin{aligned}
 H &= \begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}, A_d = \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}, A = \begin{bmatrix} 1 - \beta_{nom} & 1 \\ 0 & 1 \end{bmatrix}, B = \begin{bmatrix} 0 \\ 1 \end{bmatrix}, C = [1 \quad 0] \\
 Q &= \begin{bmatrix} q_{11} & q_{12} \\ q_{21} & q_{22} \end{bmatrix}, P = [p_1 \quad p_2]
 \end{aligned}
 \tag{8.88}$$

Erratum Table 8.3 row 2

Table 1. RIG in closed-loop mode: simulated parameters.					
No	Parameter	Symbol	Unit	Value	Comment
1	Moment of inertia	J	Kgm ²	3×10^{-6}	None
2	Time constant	τ_g	Ms	1.5	None

Corrigendum

Table 2. RIG in closed-loop mode: simulated parameters.					
No	Parameter	Symbol	Unit	Value	Comment
1	Moment of inertia	J	kgm ²	3×10^{-6}	None
2	Time constant	τ_g	ms	1.5	None

Erratum, page 427, item 3, fourth row (August 19, 2019)

Same, page 428, two rows above (8.109)

$$\Delta\check{\phi} = \check{\phi}_r - \check{\phi}_r \text{ of}$$

Taking the difference $\Delta\check{\phi} = \check{\phi}_r - \check{\phi}_r$ and ...

Corrigendum

$$\Delta\check{\phi} = \check{\phi}_r - \check{\phi}_s \text{ of}$$

Taking the difference $\Delta\check{\phi} = \check{\phi}_r - \check{\phi}_s$ and ...