Erratum for "Acceleration Feedback in Dynamic Positioning"

Karl-Petter Lindegaard

October 28, 2003

Page	Location	Reads	Should read
34	(3.27)	$\mathbf{f}^b_{\text{imu}} = \mathbf{a}^b - \mathbf{R}^b_p \mathbf{g}^p$	$\mathbf{f}^b_{\text{imu}} = \mathbf{a}^b_{nb} - \mathbf{R}^b_p \mathbf{g}^p$
34	(3.29)	$\hat{\mathbf{a}}^b = ...$	$\hat{\mathbf{a}}^b_{nb} = ...$
34	under (3.29)	$\tilde{\mathbf{a}}^b = \mathbf{a}^b - \hat{\mathbf{a}}^b$	$\tilde{\mathbf{a}}^b_{nb} = \mathbf{a}^b_{nb} - \hat{\mathbf{a}}^b_{nb}$
34	(3.31)	$\tilde{\mathbf{a}}^b \approx ...$	$\tilde{\mathbf{a}}^b_{nb} \approx ...$
35	last equation	$\hat{\mathbf{a}}^b = ...$	$\hat{\mathbf{a}}^b_{nb} = ...$
37	(3.40)	$\mathbf{z}_{WF} = ...$	$\mathbf{z}^b_{WF} = ...$
52	(4.74)	$\mathbf{C}_y(\psi_y) = ...$	$\mathbf{C}_y(\psi_y) = \begin{bmatrix} \mathbf{C}_{pw} & \mathbf{I} & \mathbf{0} & \mathbf{0} & \mathbf{0} & \mathbf{0} \\ \mathbf{0} & \mathbf{0} & \mathbf{0} & \mathbf{C}_{vw} & \mathbf{0} & \boldsymbol{\Upsilon}_2 \\ \mathbf{0} & -\boldsymbol{\Upsilon}_3\mathbf{M}^{-1}\mathbf{G}\mathbf{R}^T(\psi_y) & -\boldsymbol{\Upsilon}_3\mathbf{M}^{-1}\mathbf{R}^T(\psi_y) & \mathbf{0} & \mathbf{C}_{aw} & -\boldsymbol{\Upsilon}_3\mathbf{M}^{-1}\mathbf{D} \end{bmatrix}$
54	Figure 4.1	$\mathbf{K}_{31}$	$\mathbf{K}_{21}$
54	(4.88)	$\mathbf{C}_3 = ...$	$\mathbf{C}_3 = \begin{bmatrix} \mathbf{0} & -\boldsymbol{\Upsilon}_3\mathbf{M}^{-1}\mathbf{G} & \boldsymbol{\Upsilon}_3\mathbf{M}^{-1} & \mathbf{0} & \mathbf{C}_{aw} & -\boldsymbol{\Upsilon}_3\mathbf{M}^{-1}\mathbf{D} \end{bmatrix}$
57	above (4.102)	... in $\mathbf{K}_{11}$ and $\mathbf{K}_{31}$...	... in $\mathbf{K}_{11}$ and $\mathbf{K}_{21}$...
57	(4.106)	$k_{31,i} = \omega_{c,i}$	$k_{21,i} = \omega_{c,i}$
57	(4.108)	$\mathbf{c}_i = ...$	$\mathbf{c}_i = \begin{bmatrix} 2\beta_{p,i}\left(\delta_{p,i} - 1\right) \\ \beta^2_{p,i}\left(\delta^2_{p,i} - 1\right) + 2\beta_{p,i}\left(\delta_{p,i} - 1\right)\omega_{c,i} \\ 2\alpha_{p,i}\beta_{p,i}\left(\delta_{p,i} - 1\right) + \beta^2_{p,i}\left(\delta^2_{p,i} - 1\right)\omega_{c,i} \\ 2\beta_{p,i}\left(\delta_{p,i} - 1\right)\omega_{c,i} \end{bmatrix}$
129	(A.14)	$\Sigma_1 : \dot{x}_2 = ...$	$\Sigma_2 : \dot{x}_2 = ...$
186	Figure E.5	$\mathbf{p}^n_j$	$\mathbf{p}^b_j$