ERRATA: Peter H Zipfel "Modeling and Simulation of Aerospace Vehicle Dynamics", AIAA Educational Series, 2000. 1st Printing, 2000
--- As of 18 Oct 04, PHZ ---

Page		Erroneous	Correct
xix		CEP central error probable	CEP circular error probable
6	Third eq. down	(Last symbol:) $]^B$	(Last symbol:) $]^I$
6	Last line	as already characterized ~~in Chapter 1~~, …	as already characterized, …
32	2nd eq. down	$\begin{bmatrix} y_1^A \\ y_1^A \\ y_1^A \end{bmatrix}$	$\begin{bmatrix} y_1^A \\ y_2^A \\ y_3^A \end{bmatrix}$
65	Last three equations Credit: Mark Smith	$[a_2]^B = \dfrac{[S_{AB}]^B[g]^B}{\lvert s_{AB}\rVert g\rvert}$	$[a_2]^B = \dfrac{[S_{AB}]^B[g]^B}{\lvert[S_{AB}]^B[g]^B\rvert}$
		$[a_3]^B = [A_1]^B[a_2]^B = -\dfrac{[S_{AB}]^B[S_{AB}]^B[g]^B}{\lvert s_{AB}\rvert^2\lvert g\rvert}$	$[a_3]^B = \ldots = -\dfrac{[S_{AB}]^B[S_{AB}]^B[g]^B}{\lvert s_{AB}\rVert[S_{AB}]^B[g]^B\rvert}$
		$[T]^{BA} = \begin{bmatrix} -\frac{[S_{AB}]^B}{\lvert s_{AB}\rvert} & \frac{[S_{AB}]^B[g]^B}{\lvert s_{AB}\rVert g\rvert} & -\frac{[S_{AB}]^B[S_{AB}]^B[g]^B}{\lvert s_{AB}\rvert^2\lvert g\rvert} \end{bmatrix}$	$[T]^{BA} = \begin{bmatrix} \ldots & \frac{[S_{AB}]^B[g]^B}{\lvert[S_{AB}]^B[g]^B\rvert} & -\frac{[S_{AB}]^B[S_{AB}]^B[g]^B}{\lvert s_{AB}\rVert[S_{AB}]^B[g]^B\rvert} \end{bmatrix}$
81	Eq. 3.27	$\gamma = \arctan\left(\dfrac{w_G}{\sqrt{u_G^2 + v_G^2}}\right)$	$\gamma = \arctan\left(\dfrac{-w_G}{\sqrt{u_G^2 + v_G^2}}\right)$
82	3rd para, last line	to Table 3.1 for a summary.	to Table 3.2 for a summary.
113	4th line from bottom up	$D^R v_I^M$	$D^R v_T^M$
116	First eq. on top of page	$\ldots\left[\dfrac{dT}{dt}\right]^B \ldots$	$\ldots\left[\dfrac{dT}{dt}\right]^{BB} \ldots$
117	3rd equation	$\left[\dfrac{d\omega^{TE}}{dt}\right]^T = \ldots$	$\left[\dfrac{d\omega^{TE}}{dt}\right]^L = \ldots$
199	Eq. (6.58)	$[\Delta l]^I \equiv [l(t)]^I - [l(t_o)]^I + [m_B]^I \Delta t$	$[\Delta l]^I \equiv [l(t)]^I - [l(t_o)]^I = [m_B]^I \Delta t$
121	Top line	$-\psi \sin\phi + \dot{\phi}$	$-\psi \sin\theta + \dot{\phi}$
142	Ex. 5.1	$\mathbf{p}^I_{\Sigma B_k} = \sum_k \mathbf{p}^I_{B_k} = \sum_k m^{B_k} \mathbf{v}^I_{B_k} = \ldots$	$\mathbf{p}^R_{\Sigma B_k} = \sum_k \mathbf{p}^R_{B_k} = \sum_k m^{B_k} \mathbf{v}^R_{B_k} = \ldots$
147	2nd Eq, 2nd line	$= m^B D^{I_2}\left(D^{I_2}\mathbf{s}_{BI_2}\right) + \boldsymbol{\Omega}^{I_2 I_1}\left(D^{I_2}\mathbf{s}_{BI_2}\right) = \ldots$	$= m^B D^{I_2}\left(D^{I_2}\mathbf{s}_{BI_2}\right) + m^B \boldsymbol{\Omega}^{I_2 I_1}\left(D^{I_2}\mathbf{s}_{BI_2}\right) = \ldots$
211	Problem 6.8, first equation	$[I_B^B]^B \begin{bmatrix} I_1 & 0 & 0 \\ 0 & I_1 & 0 \\ 0 & 0 & I_3 \end{bmatrix}$	$[I_B^B]^B = \begin{bmatrix} I_1 & 0 & 0 \\ 0 & I_1 & 0 \\ 0 & 0 & I_3 \end{bmatrix}$
214	Two equations	both equal signs are missing	insert equal signs
222	Unnamed eq. after Eq.(7.21) Credit: M. Weiss	$D^I \mathbf{p}^I_B = \ldots$	$D^I \varepsilon \mathbf{p}^I_B = \ldots$
245	Eq. 7.79, 3rd line	$C_{n_{\delta e}}$	$C_{m_{\delta e}}$

245	Eq. 7.80, 2nd line	C_{l_β}	$C_{l_{\dot\beta}}$ (dot over β)
264	Eq.(8.13) (and also equation above)	$\begin{bmatrix} \dot V \\ \dot\chi V\cos\gamma \\ V\dot\gamma \end{bmatrix}$	$\begin{bmatrix} \dot V \\ \dot\chi V\cos\gamma \\ -V\dot\gamma \end{bmatrix}$
270	Eq. 8.20	$C_L = C_{L_{\alpha 0}} + C_{L_a}\alpha$	$C_L = C_{L_{\alpha 0}} + C_{L_\alpha}\alpha$
280	1st Eq.	$F_r = \dfrac{C_D S}{\cos\alpha} q_c$	$F_r = \dfrac{C_D S}{\cos\alpha} \bar q_c$
282	Fig 8.14, "A2 Propulsion" block	$m = \dfrac{F}{I_{sp} g_o}$	$\dot m = \dfrac{F}{I_{sp} g_o}$
283	First para	$[\overline{s_{BI}}]^G = [0\ 0\ R_\oplus + h]$	$[\overline{s_{BI}}]^G = [0\ 0\ -(R_\oplus + h)]$
297	Eq. (9.19), second line on left side	$\dot\psi_{UI} V\cos\theta_{UI}$	$\dot\psi_{UI} U\cos\theta_{UI}$
359	Fig. 9.60, second block	$\ddot\Phi = \ldots$	$\Phi = \ldots$
327	Eq. (9.80), second part	$\theta_{SB} = \arctan\left\{\dfrac{(u_{TB})_3^B}{\ldots}\right\}$	$\theta_{SB} = \arctan\left\{\dfrac{-(u_{TB})_3^B}{\ldots}\right\}$
346	Fig. 9.45 Credit: M. Weiss	G1 Environment	G2 Environment
379	3rd equation from bottom	$\omega^{BE} = \omega^{BB'}\omega^{B'E}$	$\omega^{BE} = \omega^{BB'} + \omega^{B'E}$
387	4th line from top	e = 0.8181919	e = 0.08181919
390	Eq. (10.41), first component on right side	$3\sqrt{5}\,C_{2,0}\ \ldots$	$-3\sqrt{5}\,C_{2,0}\ \ldots$
399	Eq. 10.56	$\left[\dfrac{dv_B^E}{dt}\right]^D = -[\Omega^{BE}]^B[v_B^E]^B \dfrac{1}{m}[f_{a,p}]^B + \ldots$	$\left[\dfrac{dv_B^E}{dt}\right]^B = -[\Omega^{BE}]^B[v_B^E]^B + \dfrac{1}{m}[f_{a,p}]^B + \ldots$
409	4-th text line	$\delta_{eff}^2 = \lvert\delta q\rvert + \lvert\delta r\rvert / 2$	$\delta_{eff} = \left(\lvert\delta q\rvert + \lvert\delta r\rvert\right)/2$
462	Line above Eq. 10.133	…the covariance σ_{xy}^2	…the covariance σ_{xy}
462	Eq. 10.133	$\sigma_{xy}^2 = \dfrac{\sum_{i=1}^{n}(x_i-\mu_x)(y_i-\mu_y)}{n-1}$	$\sigma_{xy} = \dfrac{\sum_{i=1}^{n}(x_i-\mu_x)(y_i-\mu_y)}{n-1}$
462	4th Eq.	$\rho_{xy} = \dfrac{\sigma_x\sigma_y}{\sigma_{xy}}$	$\rho_{xy} = \dfrac{\sigma_{xy}}{\sigma_x\sigma_y}$
464	In 2nd eq. from top	$\dfrac{1}{2}\int_0^m \dfrac{r}{\sigma_r} e^{-\frac{r^2}{2\sigma_r^2}} dr$	$\dfrac{1}{2}\int_0^m \dfrac{r}{\sigma_r^2} e^{-\frac{r^2}{2\sigma_r^2}} dr$