ERRATA: Peter H Zipfel "Modeling and Simulation of Aerospace Vehicle Dynamics", AIAA Educational Series, 2000. 2nd Edition, 2007
--- As of May 2013, sorry for the inconvenience, PHZ ---

Page		Wrong	Correct
PART I			
76	line 25	The TM $[T]^{WB}$ is about this …	The TM $[T]^{BS}$ is about this …
98	bottom equation	$\left[R^{S_1S_0}\right]^I = \left[R^{S_1E}\right]^I \left[R^{EI}\right]^I \left[\bar{R}^{S_0E}\right]^I$	$\left[R^{S_1S_0}\right]^I = \left[R^{S_1E}\right]^I \left[R^{EI}\right]^I \left[\bar{R}^{S_0I}\right]^I$
99	Eq. 4.20	$\left[R^{S_1S_0}\right]^I = [T]^{IE} \left[R^{S_1E}\right]^E [\bar{T}]^{IE} \left[R^{EI}\right]^I \left[\bar{R}^{S_0E}\right]^I$	$\left[R^{S_1S_0}\right]^I = [T]^{IE} \left[R^{S_1E}\right]^E [\bar{T}]^{IE} \left[R^{EI}\right]^I \left[\bar{R}^{S_0I}\right]^I$
101	Eq. 4.26	$[\varepsilon R]^A = \begin{bmatrix} 0 & \varepsilon r_{12} & \varepsilon r_{13} \\ -\varepsilon r_{12} & 0 & \varepsilon r_{23} \\ -\varepsilon r_{13} & \varepsilon r_{23} & 0 \end{bmatrix}$	$[\varepsilon R]^A = \begin{bmatrix} 0 & \varepsilon r_{12} & \varepsilon r_{13} \\ -\varepsilon r_{12} & 0 & \varepsilon r_{23} \\ -\varepsilon r_{13} & -\varepsilon r_{23} & 0 \end{bmatrix}$
169	top eq. 3rd line	$\ldots + \sum_i m_i \bar{s}_{iB} s_{BR} + \bar{s}_{BR} \sum_i m_i s_{iB} - \sum_i m_i s_{iB} \bar{s}_{BR} - s_{BR} \sum_i m_i \bar{s}_{iB}$	$\ldots + \sum_i m_i \bar{s}_{iB} s_{BR} E + \bar{s}_{BR} \sum_i m_i s_{iB} E - \sum_i m_i s_{iB} \bar{s}_{BR} - s_{BR} \sum_i m_i \bar{s}_{iB}$
229	line 31	… mirrored by the reflection tensor M_{jm}	… mirrored by the reflection tensor M_{jp}
235	Eq. 7.53	$[\varepsilon f_a]^{Bp} = \left[\frac{\partial m_a}{\partial v_B^A}(M, \mathrm{Re})\right]^{Bp} \left[\varepsilon v_B^A\right]^{Bp} + \ldots..$	$[\varepsilon f_a]^{Bp} = \left[\frac{\partial f_a}{\partial v_B^A}(M, \mathrm{Re})\right]^{Bp} \left[\varepsilon v_B^A\right]^{Bp} + \ldots..$
236	Eq. 7.56	$\left[I_{Bp}^{Bp}\right]^{Bp} \left[\frac{d\omega^{BpBr}}{dt}\right]^{Bp} = \left[\frac{\partial m_a}{\partial v_B^I}(M)\right]^{Bp} \left[\varepsilon v_B^I\right]^{Bp} + \ldots \left[\frac{\partial f_a}{\partial \dot{v}_B^I}(M)\right]^{Bp} \left[\varepsilon \dot{v}_B^I\right]^{Bp} \ldots$	$\left[I_{Bp}^{Bp}\right]^{Bp} \left[\frac{d\omega^{BpBr}}{dt}\right]^{Bp} = \left[\frac{\partial m_a}{\partial v_B^I}(M)\right]^{Bp} \left[\varepsilon v_B^I\right]^{Bp} + \ldots \left[\frac{\partial m_a}{\partial \dot{v}_B^I}(M)\right]^{Bp} \left[\varepsilon \dot{v}_B^I\right]^{Bp} \ldots$
239	line 17	Substituting Eq.(7.63) into Eq.(7.61) eliminates…	Substituting Eq.(7.63) into Eq.(7.60) eliminates…
249	4 lines below Eq.7.83	Because the reference roll rate ϕ_r is also zero,….	Because the reference roll rate p_r is also zero,….
PART 2			
294	Eq. 9.9	$\omega^{BV} = \dot{\beta} u_3 + \dot{\alpha} b_2$	$\omega^{BV} = -\dot{\beta} u_3 + \dot{\alpha} b_2$
294	Eq. after Eq. 9.9	$\left[\omega^{BV}\right]^B = \dot{\beta} [T]^{BV} [u_3]^V + \dot{\alpha} [b_2]^B$	$\left[\omega^{BV}\right]^B = -\dot{\beta} [T]^{BV} [u_3]^V + \dot{\alpha} [b_2]^B$
297	line after Eq.9.17	$\left[\omega^{BU}\right]^B$ is given by Eq.(9.10)..	$\left[\omega^{BV}\right]^B$ is given by Eq.(9.10)..
322	line above Eq. 9.64	velocity vector $V \mathbf{u}_v$	unit velocity vector $\mathbf{u}_v$
322	Eq. 9.64	$\mathbf{a} = KV \mathbf{E} \mathbf{u}_v$	$\mathbf{a} = K \mathbf{E} \mathbf{u}_v$
322	Eq. 9.65	$\mathbf{a} = KV(\mathbf{E}_P \mathbf{u}_v - G \mathbf{E}_L \mathbf{u}_v) = KV(\mathbf{U}_v \mathbf{U}_{LOS} \mathbf{u}_v - G \mathbf{U}_v \mathbf{U}_{LOA} \mathbf{u}_v)$	$\mathbf{a} = K(\mathbf{E}_P \mathbf{u}_v - G \mathbf{E}_L \mathbf{u}_v) = KV(\mathbf{U}_v \mathbf{U}_{LOS} \mathbf{u}_v - G \mathbf{U}_v \mathbf{U}_{LOA} \mathbf{u}_v)$
324	last equation	$\begin{bmatrix} -\sin\gamma \\ 0 \\ \cos\chi \end{bmatrix}$	$\begin{bmatrix} -\sin\gamma \\ 0 \\ \cos\gamma \end{bmatrix}$
372	Eq. 10.13	$\tan\phi = \frac{2(q_2q_3 + q_0q_1)}{q_0^2 - q_1^2 - q_2^2 - q_3^2}$	$\tan\phi = \frac{2(q_2q_3 + q_0q_1)}{q_0^2 - q_1^2 - q_2^2 + q_3^2}$
392	Eq. 10.45	$v_B^I = v_B^E + \Omega^{BE} s_{BI}$	$v_B^I = v_B^E + \Omega^{EI} s_{BI}$
432	equation which is written in middle of p432	$\ldots$ $= \left([E]^{\hat{I}} - \left[\varepsilon R^{\hat{I}I}\right]^{\hat{I}}\right) [\bar{T}]^{B\hat{I}} \left(\left[\hat{f}_{sp}\right]^B - \left[\varepsilon f_{sp}\right]^B\right) + [\hat{g}]^{\hat{I}} - [\varepsilon g]^{\hat{I}}$	$\ldots$ $= \left([E]^{\hat{I}} + \left[\varepsilon R^{\hat{I}I}\right]^{\hat{I}}\right) [\bar{T}]^{B\hat{I}} \left(\left[\hat{f}_{sp}\right]^B - \left[\varepsilon f_{sp}\right]^B\right) + [\hat{g}]^{\hat{I}} - [\varepsilon g]^{\hat{I}}$

434	Eq. 10.93	$\left[\frac{d\varepsilon R^{\hat{I}I}}{dt}\right]^{\hat{I}} = \left[\bar{T}\right]^{BI}\left[\varepsilon\omega^{BI}\right]^{B}$	$\left[\frac{d\varepsilon R^{\hat{I}I}}{dt}\right]^{\hat{I}} = \left[\bar{T}\right]^{B\hat{I}}\left[\varepsilon\omega^{BI}\right]^{B}$
438	Eq. 10.98	$[\ldots] = \begin{bmatrix} \ldots & \ldots & & O_{3\times3} & \\ & & 0 & -\left(\hat{f}_{sp}\right)_3^{\hat{L}} & \left(\hat{f}_{sp}\right)_2^{\hat{L}} \\ \ldots & \ldots & \left(\hat{f}_{sp}\right)_3^{\hat{L}} & 0 & -\left(\hat{f}_{sp}\right)_1^{\hat{L}} \\ & & -\left(\hat{f}_{sp}\right)_2^{\hat{L}} & -\left(\hat{f}_{sp}\right)_1^{\hat{L}} & 0 \\ \ldots & \ldots & & O_{3\times3} & \end{bmatrix} [\ldots]$	$[\ldots] = \begin{bmatrix} \ldots & \ldots & & O_{3\times3} & \\ & & 0 & -\left(\hat{f}_{sp}\right)_3^{\hat{L}} & \left(\hat{f}_{sp}\right)_2^{\hat{L}} \\ \ldots & \ldots & \left(\hat{f}_{sp}\right)_3^{\hat{L}} & 0 & -\left(\hat{f}_{sp}\right)_1^{\hat{L}} \\ & & -\left(\hat{f}_{sp}\right)_2^{\hat{L}} & \left(\hat{f}_{sp}\right)_1^{\hat{L}} & 0 \\ \ldots & \ldots & & O_{3\times3} & \end{bmatrix} [\ldots]$