

References

- ¹Black, Harold D., "A Passive System for Determining the Attitude of a Satellite," *AIAA Journal*, Vol. 2, No. 7, 1964, pp. 1350, 1351.
- ²Lerner, Gerald M., "Three-Axis Attitude Determination," *Spacecraft Attitude Determination and Control*, edited by James R. Wertz, D. Reidel, Dordrecht, the Netherlands, 1978, pp. 420–428.
- ³Wahba, Grace, "A Least Squares Estimate of Spacecraft Attitude," *SIAM Review*, Vol. 7, No. 3, 1965, p. 409.
- ⁴Markley, F. Landis, and Mortari, Daniele, "Quaternion Attitude Estimation Using Vector Observations," *Journal of the Astronautical Sciences*, Vol. 48, No. 2/3, 2000, pp. 359–380.
- ⁵Shuster, M. D., and Oh, S. D., "Three-Axis Attitude Determination from Vector Observations," *Journal of Guidance and Control*, Vol. 4, No. 1, 1981, pp. 70–77.
- ⁶Markley, F. Landis, "Attitude Determination Using Vector Observations: A Fast Optimal Matrix Algorithm," *Journal of the Astronautical Sciences*, Vol. 41, No. 2, 1993, pp. 261–280.
- ⁷Mortari, Daniele, "EULER-2 and EULER-n Algorithms for Attitude Determination from Vector Observations," *Space Technology*, Vol. 16, No. 5/6, 1996, pp. 317–321.

- ⁸Reynolds, R. G., "Quaternion Parameterization and a Simple Algorithm for Global Attitude Estimation," *Journal of Guidance, Control, and Dynamics*, Vol. 21, No. 4, 1998, pp. 669–671.
- ⁹Markley, F. Landis, "Parameterization of the Attitude," *Spacecraft Attitude Determination and Control*, edited by James R. Wertz, D. Reidel, Dordrecht, the Netherlands, 1978, pp. 410–420.
- ¹⁰Shuster, Malcolm D., "A Survey of Attitude Representations," *Journal of the Astronautical Sciences*, Vol. 41, No. 4, 1993, pp. 439–517.
- ¹¹Shepperd, S. W., "Quaternion from Rotation Matrix," *Journal of Guidance and Control*, Vol. 1, No. 3, 1978, pp. 223, 224.
- ¹²Markley, F. Landis, "Attitude Determination Using Two Vector Measurements," *1999 Flight Mechanics Symposium*, edited by John P. Lynch, NASA Goddard Space Flight Center, Greenbelt, MD, NASA/CP-1999-209235, 1999, pp. 39–52.
- ¹³Shuster, Malcolm D., and Natanson, Gregory A., "Quaternion Computation from a Geometric Point of View," *Journal of the Astronautical Sciences*, Vol. 41, No. 4, 1993, pp. 545–556.
- ¹⁴Bauer, R., "Uniform Sampling of SO_3 ," *2001 Flight Mechanics Symposium*, edited by John P. Lynch, NASA Goddard Space Flight Center, Greenbelt, MD, NASA/CP-2001-209986, 2001, pp. 347–359.

Errata

Erratum for Improved Dispersion of a Fin-Stabilized Projectile Using a Passive Moveable Nose

Mark Costello and Raditya Agarwalla
Oregon State University, Corvallis, Oregon 97331

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THE six equations shown in the following contained typographical errors in the printed journal article. The corrected equations are given here:

$$A_F = -\frac{m_A m_F}{m_A + m_F} T_F S_{\rho_F} \quad (9)$$

$$B_{AF} = \frac{m_F}{m_A + m_F} \begin{Bmatrix} X_A \\ Y_A \\ Z_A \end{Bmatrix} - \frac{m_A}{m_A + m_F} T_F \begin{Bmatrix} X_F \\ Y_F \\ Z_F \end{Bmatrix} + \frac{m_A m_F}{m_A + m_F} \left(S_{\omega_A} S_{\omega_A} \begin{Bmatrix} \rho A_X \\ \rho A_Y \\ \rho A_Z \end{Bmatrix} - T_F S_{\omega_F} S_{\omega_F} \begin{Bmatrix} \rho F_X \\ \rho F_Y \\ \rho F_Z \end{Bmatrix} \right) \quad (10)$$

$$\begin{Bmatrix} L_C \\ M_C \\ N_C \end{Bmatrix} = \frac{M_g}{\sqrt{\sin^2(\theta_F) + \cos^2(\theta_F) \sin^2(\psi_F)}} \times \begin{Bmatrix} 0 \\ -\sin(\theta_F) \\ -\cos(\theta_F) \sin(\psi_F) \end{Bmatrix} + C_g \begin{Bmatrix} \delta p \\ \delta q \\ \delta r \end{Bmatrix} \quad (12)$$

$$T_F I_F \begin{Bmatrix} \dot{p}_F \\ \dot{q}_F \\ \dot{r}_F \end{Bmatrix} + T_F S_{\omega_F} I_F \begin{Bmatrix} p_F \\ q_F \\ r_F \end{Bmatrix} = \begin{Bmatrix} L_C \\ M_C \\ N_C \end{Bmatrix} + T_F \begin{Bmatrix} L_F \\ M_F \\ N_F \end{Bmatrix} - S_{\tilde{\rho}_F} \begin{Bmatrix} X_C \\ Y_C \\ Z_C \end{Bmatrix} \quad (16)$$

$$\begin{bmatrix} I_A - S_{\rho_A} A_A & -S_{\rho_A} A_F \\ S_{\tilde{\rho}_F} A_A & T_F I_F + S_{\tilde{\rho}_F} A_F \end{bmatrix} \begin{Bmatrix} \dot{p}_A \\ \dot{q}_A \\ \dot{r}_A \\ \dot{p}_F \\ \dot{q}_F \\ \dot{r}_F \end{Bmatrix} = \begin{Bmatrix} g_{A_X} \\ g_{A_Y} \\ g_{A_Z} \\ g_{F_X} \\ g_{F_Y} \\ g_{F_Z} \end{Bmatrix} \quad (17)$$

$$\{g_F\} = -T_F S_{\omega_F} I_F \begin{Bmatrix} p_F \\ q_F \\ r_F \end{Bmatrix} + \begin{Bmatrix} L_C \\ M_C \\ N_C \end{Bmatrix} + T_F \begin{Bmatrix} L_F \\ M_F \\ N_F \end{Bmatrix} - S_{\tilde{\rho}_F} \{B_{AF}\} \quad (19)$$

AIAA regrets the error.