## **Errata**

by Mark E. Pittelkau 10/05/2007

## Correction

In Table 2 of [1] and [2], the following expression is incorrect:

$$P(\omega) = |\text{FFTSHIFT}(\text{FFT}(\Theta, M))|^2/M$$
 power spectrum of  $\Theta$ 

This equation should have been written

$$P(\omega) = |\text{FFTSHIFT}(\text{FFT}(\Theta, M))/M|^2$$
 power spectrum of  $\Theta$ 

The text on the first few lines of the page preceding Table 2 in both papers gives the correct verbal description. In addition, it is explained there that a check on correctness is that the sum of the discrete power spectrum equals the second moment (variance plus mean square) of the data.

## Acknowledgement

I thank to my colleagues Hongxing "Stella" Shapiro and Courtney Ray at the Applied Physics Laboratory for pointing out the discrepancy between my Matlab code and the documentation.

## References

- [1] M. Pittelkau, "Definitions, Metrics, and Algorithms for Displacement, Jitter, and Stability", Paper No. AAS 03-559, AAS/AIAA Astrodynamics Specialists Conference, Big Sky, MT, 3–7 August 2003. In Advances in the Astronautical Sciences, Vol. 116, Part II, pp. 901–920, 2003. [CD-ROM, Book]
- [2] M. Pittelkau, "Definitions, Metrics, And Algorithms For Displacement, Jitter, and Stability", Flight Mechanics Symposium, NASA Goddard Space Flight Center, NASA/CP-2003-212246, 28–30 October 2003, [CD-ROM].