"Centering and Observability in Attitude-Independent Magnetometer-Bias Determination," Roberto Alonso and M. D. Shuster, *The Journal of the Astronautical Sciences*, Vol. 51, No. 2, April–June 2003, pp. 133–141.

This article was originally part of 2002a, and consisted of an analytical study of the TWOSTEP performance when the first step did not converge to a unique value because of problems of observability. It was decided to make this part of the TWOSTEP work a separate article, because some colleagues were misinterpreting it as a necessary part of the algorithm.

Succeeded 2002a.