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“The Speed of Attitude Estimation,” Yang Cheng and Malcolm D. Shuster, Paper AAS 07-105, *17th AAS/AIAA Space Flight Mechanics Meeting*, Sedona, Arizona, January 28–February 2, 2007; Proceedings: *Advances in the Astronautical Sciences*, Vol. 122, 2007, pp. 101–116.

This work is in response to an article published in 2000 by Markley and Mortari which claimed that the QUEST algorithm was slower than other fast optimal attitude estimation algorithms. The present work shows instead that QUEST is as fast as any fast optimal estimator of the attitude and shows this for a much more complete set of criteria and environments than did the work by Markley and Mortari.