

2000a

“Suboptimal Algorithm for Attitude Determination from Multiple Star Cameras,” M. D. Shuster, Paper AAS 00-124, *AAS/AIAA Space Flight Mechanics Meeting*, Clearwater, Florida, January 23–26, 2000; Proceedings: *Advances in the Astronautical Sciences*, Vol. 105, 2000, pp. 383–394.

This paper was the result of a presentation in 1994 by Thomas Brozenec and Douglas Bender at a NASA Goddard Space Flight Center symposium of an algorithm which replaced N star measurements in a star tracker by an average direction. 2000a carried out a careful statistical analysis of the Brozenec-Bender approximation which showed that the algorithm worked well in general with two star trackers but not with one star tracker paired with coarse attitude sensors.