The DJH Inertial Navigation System Package

David Hanley

October 17, 2017

Abstract

1 Introduction

1.1 Coordinate Systems

2 Conclusion

blah blah blah [1–10]

References

[1] M. T. Heath, *Scientific Computing: An Introductory Survey*, 2nd ed. Boston, MA: McGraw-Hill Higher Education, 2002.

[2] D. Titterton and J. Weston, *Strapdown Inertial Navigation Technology*, 2nd ed., ser. Radar, Sonar, Navigation and Avioncs Series. London, UK: The Institution of Engineering and Technology, 2004, vol. 17.

[3] P. G. Savage, "Strapdown inertial navigation integration algorithm design part 1: Attitude algorithms," *Journal of Guidane, Control, and Dynamics*, vol. 21, no. 1, pp. 19–28, Jan 1998.

[4] ——, "Strapdown inertial navigation integration algorithm design part 2: Velocity and position algorithms," *Journal of Guidane, Control, and Dynamics*, vol. 21, no. 2, pp. 208–221, March 1998.

[5] ——, *Strapdown Analytics: Part 1*, 2nd ed. Maple Plain, MN: Strapdown Associates, Inc., 2007.

[6] ——, *Strapdown Analytics: Part 2*, 2nd ed. Maple Plain, MN: Strapdown Associates, Inc., 2007.

[7] ——, "Performance analysis of strapdown systems," The Research and Technology Organization of NATO, Tech. Rep. RTO-EN-SET-116(2009), 2009.

[8] T. Barfoot, J. R. Forbes, and P. T. Furgale, "Pose estimation using linearized rotations and quaternion algebra," *Acta Astronautica*, vol. 68, pp. 101–112, 2011.

[9] "Quaternions white paper," NASA Navigation and Ancillary Information Facility (NAIF), Tech. Rep., Nov 2003.

[10] N. Trawny and S. I. Roumeliotis, "Indirect kalman filter for 3d attitude estimation: A tutorial for quaternion algebra," Multiple Autonomous Robotic Systems Laboratory, Department of Computer Science, University of Minnesota, 4-192 EE/CS Building, 200 Union St. S.E., Minneapolis, MN 55455, Tech. Rep. 2005-002, Rev. 57, March 2005.