

Bibliography test

This document's purpose is to demonstrate and verify the syntax of .bib files, such as the colocated all-rsh-data.bib. Last compiled at 2019/12/20 at 22:12:42.

I. ACKNOWLEDGMENTS

The authors would like to thank the UND library system for providing many of these books and papers free of charge. The authors would also like to thank Alexandra Elbakyan, the owner and operator of the Sci-Hub website for providing access to un-paywalled versions of many of the papers out of the reach of UND's databases.

REFERENCES

- [1] David J. Allerton and Huamin Jia. A review of multisensor fusion methodologies for aircraft navigation systems. *Journal of Navigation*, 58(3):405–417, 2005. doi:10.1017/S0373463305003383.
- [2] Simon L. Altmann. Rotations, quaternions, and double groups, 2005.
- [3] Ravindra Babu and Jinling Wang. Ultra-tight gps/ins/pl integration: Kalman filter performance analysis. *GNSS 2005*, pages 8–10, 2005. doi:10.1007/s10291-008-0097-9.
- [4] Matej Bazed and Franc Dmic. Doppler Effect Measurements with SDR. 03 2018. URL: https://www.researchgate.net/publication/323771973_Doppler_Effect_Measurements_with_SDR.
- [5] G Berz. Guideline for p-nav infrastructure assessment. *Eurocontrol*, page 35, 2008.
- [6] John H Blakelock. Automatic control of aircraft and missiles, 1991.
- [7] Bosch Sensortec. *BNO055 Datasheet*, June 2016. Rev 1.4. URL: https://cdn-shop.adafruit.com/datasheets/BST_BNO055_DS000_12.pdf.
- [8] Spencer Bretz and Michael Turnbull. Using Barometric Pressure Altitude to Verify and Improve GNSS/INS Surface Position Accuracy in Space Vehicle Ascent Guidance. Dec 2019. URL: <https://github.com/UND-ARC/research/raw/master/docs/Resources/baronav.pdf>.
- [9] R. P. G Collinson. Introduction to avionics systems, 2003.
- [10] John H. (John Horton) Conway. On quaternions and octonions: their geometry, arithmetic, and symmetry, 2003.
- [11] Randy Culp. Rocket equations. URL: <http://www.rocketmime.com/rockets/RocketEquations.pdf>.
- [12] John M. Dow, R. E. Neilan, and C. Rizos. The International GNSS Service in a changing landscape of Global Navigation Satellite Systems. *Journal of Geodesy*, 83(3):191–198, Mar 2009. doi:10.1007/s00190-008-0300-3.
- [13] Federal Aviation Administration. *Space Vehicle Control Systems*.
- [14] Federal Aviation Administration. *Inertial Navigation Systems (INS)*, Feb 1966.
- [15] Börje Forssell. Radionavigation systems, 2008.
- [16] Manuel Fuhr, Martin Braun, Christian Sturm, Lars Reichardt, and Friedrich K Jondral. An SDR-based Experimental Setup for OFDM-based Radar. 2012.
- [17] Mohinder S Grewal. Kalman filtering : theory and practice using matlab, 2008.
- [18] David Harris. Ground studies for pilots. flight instruments & automatic flight control systems, 2004.
- [19] IEEE. PLANS2004 : [IEEE] Position Location and Navigation Symposium : Monterey, California, April 26-29, 2004.
- [20] International Civil Aviation Organization. Global navigation satellite system (GNSS) manual. Technical report, Montréal, Québec, Canada, 2005.
- [21] InvenSense Inc. *MPU-6000 and MPU-6050 Product Specification*, Aug 2013. Rev 3.4. URL: <https://www.invensense.com/wp-content/uploads/2015/02/MPU-6000-Datasheet1.pdf>.
- [22] RJ Kelly and JM Davis. Required navigation performance (rnp) for precision approach and landing with gnss application. *Navigation*, 41(1):1–30, 1994.
- [23] Y. Kim, S. Choi, H. Kim, and J. Lee. Performance improvement and height estimation of pedestrian dead-reckoning system using a low cost mems sensor. In *2012 12th International Conference on Control, Automation and Systems*, pages 1655–1660, Oct 2012.
- [24] Y. Kim, S. Choi, H. Kim, and J. Lee. Performance improvement and height estimation of pedestrian dead-reckoning system using a low cost mems sensor. In *2012 12th International Conference on Control, Automation and Systems*, pages 1655–1660, Oct 2012.
- [25] Jack B. Kuipers. Quaternions and rotation sequences: a primer with applications to orbits, aerospace, and virtual reality, 1999.
- [26] Alfredo Locarini, Paolo Tortora, and Alessandro Avanzi. Development and test campaign of a gps-based navigation sub-system for the eseo mission. In *2016 IEEE Metrology for Aerospace (MetroAeroSpace)*, pages 567–572. IEEE, 2016.
- [27] Nosrati M. FPGA-BASED GPS RECEIVER FOR SPACE MISSION. URL: <https://cyberleninka.ru/article/n/fpga-based-gps-receiver-for-space-mission>.
- [28] measurement specialties. *MS5803-14BA Miniature 14 bar Module*, Sep 2012. ECN1703. URL: https://cdn.sparkfun.com/datasheets/Sensors/Weather/ms5803_14ba.pdf.
- [29] Mediatek. *MT3339 All-in-One GPS Datasheet*, Jan 2017. Rev 1.0. URL: https://d86o2zu8ugzlg.cloudfront.net/mediatek-craft/documents/mt3339/MT3339_Datasheet.pdf.
- [30] Shmuel Merhav. Aerospace sensor systems and applications, 1996.
- [31] Oliver Montenbruck and Markus Markgraf. Global positioning system sensor with instantaneous-impact-point prediction for sounding rockets. *Journal of spacecraft and rockets*, 41(4):644–650, 2004.
- [32] John R Newport. Avionic systems design, 1994.
- [33] Maxwell Noton. Spacecraft navigation and guidance, 1998.
- [34] Robert Osiander. MEMS and Microstructures in aerospace applications, 2006.
- [35] Jungi Park, DongSun Lee, and Chansik Park. *Journal of Positioning, Navigation, and Timing*, 4(3):141–150, 2015.
- [36] Mukund R. Patel. Spacecraft power systems, 2005.
- [37] Aaron Price. An apparatus for personalized atmospheric and flight data collection aboard high altitude weather balloons. *HardwareX*, 6:e00077, 2019.
- [38] G Satheesh Reddy and VK Saraswat. Advanced navigation system for aircraft applications. *Defence Science Journal*, 63(2):131–137, 2013.
- [39] Ferran Reverter Cubarsí, Goran Horak, Vedran Bilas, and Manuel Gasulla Forner. Novel and low-cost temperature compensation technique for piezoresistive pressure sensors. In *XIX IMEKO World Congress. Fundamental and Applied Metrology*, pages 2084–2087, 2009.
- [40] Robert M Rogers. Applied mathematics in integrated navigation systems, 2007.
- [41] William T Russell. Inertial guidance for rocket-propelled missiles. *Journal of Jet Propulsion*, 28(1):17–24, 1958.
- [42] Andrew D Santangelo and Jacob Santangelo. The LinkStar-STX3 Radio Architecture with Integrated GPS: A Case Study And Lessons Learned From CubeSat and High Altitude Balloon Missions. In *2018 AIAA SPACE and Astronautics Forum and Exposition*, page 5284, 2018.
- [43] C. J Savant. Principles of inertial navigation, 1961.
- [44] Clement Joseph Savant. *Principles of inertial navigation*. McGraw-Hill, 1961. URL: <http://hdl.handle.net/2027/mdp.39015008419684>.
- [45] H. Seraji and N. Serrano. A multisensor decision fusion system for terrain safety assessment. *IEEE Transactions on Robotics*, 25(1):99–108, Feb 2009. doi:10.1109/TRO.2008.2006705.
- [46] Ravi Shankar. Fusion of onboard sensors for better navigation. *Defence Science Journal*, 63(2):145–152, 2013.
- [47] Marvin Kenneth Simon. Bandwidth-efficient digital modulation with application to deep-space communications, 2003.
- [48] Kyle M Smalling and Kenneth W Eure. A short tutorial on inertial navigation system and global positioning system integration. 2015. URL: <https://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20150018921.pdf>.
- [49] Dale Stacey. Aeronautical radio communication systems and networks, 2007.
- [50] R. S. Stansbury, M. Towhidnejad, N. Demidovich, C. Greenlow, J. DiNofrio, and D. Edwards. Initial flight tests of uat ads-b unit for suborbital reusable launch vehicles. In *2013 Integrated Communications*,

- Navigation and Surveillance Conference (ICNS)*, pages 1–11, April 2013. doi:10.1109/ICNSurv.2013.6548528.
- [51] STMicroelectronics. *MEMS pressure sensor: 260-1260 mbar absolute digital output barometer : Datasheet – production data*, Mar 2012. Rev 7. URL: <https://files.amperka.ru/datasheets/LPS331AP-barometer.pdf>.
 - [52] Ashish Tewari. *Atmospheric and space flight dynamics : modeling and simulation with matlab and simulink*, 2007.
 - [53] Texas Instruments. *AM335x Sitara™ Processors*, Dec 2018. URL: <http://www.ti.com/lit/ds/symlink/am3359.pdf>.
 - [54] William Tyrrell Thomson. Introduction to space dynamics. *American Journal of Physics*, 30(8):608–609, 1962.
 - [55] Michael H Tooley. *Aircraft communications and navigation systems: principles, operation and maintenance*, 2007.
 - [56] Michael H Tooley. *Aircraft electrical and electronic systems : principles, operation and maintenance*, 2009.
 - [57] u-blox. *NEO-6 : u-blox 6 GPS Modules : Data Sheet*. URL: [https://www.u-blox.com/sites/default/files/products/documents/NEO-6_DataSheet_\(GPS.G6-HW-09005\).pdf](https://www.u-blox.com/sites/default/files/products/documents/NEO-6_DataSheet_(GPS.G6-HW-09005).pdf).
 - [58] u-blox. *ZED-F9P : u-blox F9 high precision GNSS module : Data Sheet*, Feb 2019. Rev R04. URL: https://www.u-blox.com/sites/default/files/ZED-F9P_DataSheet_%28UBX-17051259%29.pdf.
 - [59] University of North Dakota Advanced Rocketry Club. Student Competition Team Evaluation. 2018.
 - [60] University of North Dakota Advanced Rocketry Club. Avionics Team Preliminary Design Review. Technical report, 2019. URL: <https://github.com/UND-ARC/research/blob/master/docs/Reports/PDR-Avionics.docx>.
 - [61] Sasi Prabhakaran Viswanathan, Amit Kumar Sanyal, and Maziar Izadi. Mechatronics architecture of smartphone-based spacecraft adcs using vscmg actuators. *arXiv preprint arXiv:1509.03677*, 2015.
 - [62] J. Wang and K. Liang. Multi-sensor data fusion based on fault detection and feedback for integrated navigation systems. In *2008 International Symposium on Intelligent Information Technology Application Workshops*, pages 232–235, Dec 2008. doi:10.1109/IITA.Workshops.2008.240.
 - [63] Xin Wang and Lu Xiao. Gyroscope-reduced inertial navigation system for flight vehicle motion estimation. *Advances in Space Research*, 59(1):413–424, 2017.
 - [64] Xin Wang and Lu Xiao. Gyroscope-reduced inertial navigation system for flight vehicle motion estimation. *Advances in Space Research*, 59(1):413–424, 2017.
 - [65] Ryan M Watson, Victor Sivaneri, and Jason N Gross. Performance characterization of tightly-coupled gnss precise point positioning inertial navigation within a simulation environment. In *AIAA Guidance, Navigation, and Control Conference*, page 1869, 2016.
 - [66] L. M. B. Winternitz, W. A. Bamford, and G. W. Heckler. A gps receiver for high-altitude satellite navigation. *IEEE Journal of Selected Topics in Signal Processing*, 3(4):541–556, Aug 2009. doi:10.1109/JSTSP.2009.2023352.
 - [67] James S Wolper. *Understanding mathematics for aircraft navigation*, 2001.
 - [68] Yuanxin Wu, Xiaoping Hu, Dewen Hu, Tao Li, and Junxiang Lian. Strapdown inertial navigation system algorithms based on dual quaternions. *IEEE Transactions on Aerospace and Electronic Systems*, 41(1):110–132, Jan 2005. doi:10.1109/TAES.2005.1413751.
 - [69] Ya Zhang, Fei Yu, Wei Gao, and Yanyan Wang. An improved strapdown inertial navigation system initial alignment algorithm for unmanned vehicles. *Sensors*, 18(10):3297, 2018.
 - [70] Houde Dai Xuke Xia Zhirong Lin, Yongsheng Xiong. An Experimental Performance Evaluation of the Orientation Accuracy of Four Nine-Axis MEMS Motion Sensors. doi:DOI10.1109/ES.2017.37.