

Paul G. Savage Publications

- “Analytically Deriving How Ring Laser And Fiber Optic Gyros Measure Angular Rotation”, SAI WBN-14023, www.strapdownassociates.com, November 1, 2018.
- “Differential Point-To-Point Relativity In Rotating Coordinates”, SAI WBN-14022, www.strapdownassociates.com, May 28, 2018.
- “Improved Strapdown Inertial Measurement Unit Calibration Procedures”, IEEE/ION Position Location and Navigation Symposium (PLANS), Monterey, California, Apr 23-26, 2018
- “Differential Kinematics Of Point-To-Point Relativity”, SAI WBN-14021, www.strapdownassociates.com, March 11, 2018.
- “Improved Strapdown Inertial System Calibration Procedures, Part 1, Procedures And Accuracy Analysis”, SAI WBN-14020-1, www.strapdownassociates.com, October 20, 2017 (Updated January 11, 2018).
- “Improved Strapdown Inertial System Calibration Procedures, Part 2, Analytical Derivations”, SAI WBN-14020-2, www.strapdownassociates.com, October 20, 2017 (Updated January 11, 2018).
- “Improved Strapdown Inertial System Calibration Procedures, Part 3, Numerical Examples”, SAI WBN-14020-3, www.strapdownassociates.com, November 10, 2017, (Updated January 11, 2018).
- “Down-Summing Rotation Vectors For Strapdown Attitude Updating”, SAI WBN-14019, www.strapdownassociates.com, July 16, 2017.
- “Digital Integration Algorithm Error For Random Process Inputs”, SAI WBN-14018, www.strapdownassociates.com, June 26, 2017.
- “Skewed Sensor Failure Detection Using Parallel Navigation Solutions”, SAI WBN-14017, www.strapdownassociates.com, June 16, 2016.
- “Blazing Gyros - The Movie”, SAI WBN-14016, www.strapdownassociates.com, May 16, 2016.
- “Introduction To The Kinematics Of Point-To-Point Relativity”, SAI WBN-14015, www.strapdownassociates.com, April 17, 2016 (Updated May 3, 2018).
- “Geordie’s Quaternion Decision”, SAI WBN-14014, www.strapdownassociates.com, February 17, 2016.
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“Designing An Extended Kalman Filter For A Stellar Aided Strapdown Inertial Navigation System”, SAI WBN-14012, www.strapdownassociates.com, January 16, 2016.

“Performance Analysis Of Strapdown Systems”, SAI WBN-14011, www.strapdownassociates.com, June 2, 2016.

“Computational Elements For Strapdown Systems”, SAI WBN-14010, www.strapdownassociates.com, May 31, 2015.

“Blazing Gyros - The Evolution Of Strapdown Inertial Navigation Technology For Aircraft - Web Version”, SAI WBN-14009, www.strapdownassociates.com, May 29, 2015.

“Lever Arm Corrections During INS Transfer Alignment With Wide Angle Initial Heading Error”, SAI WBN-14008, www.strapdownassociates.com, April 17, 2015.

“Coarse Leveling Of INS Attitude Under Dynamic Trajectory Conditions”, SAI WBN-14007, www.strapdownassociates.com, January 28, 2014.

“Moving Base Alignment With Large Initial Heading Error”, SAI WBN-14006, www.strapdownassociates.com, October 3, 2014.

“Modifying The Kalman Filter Measurement To Mitigate Second Order Error Amplification In INS Velocity Matching Alignment Applications”, SAI WBN-14005, www.strapdownassociates.com, July, 15, 2014.

“Fixed Gain Digital Filter Design For Specified Phase Versus Frequency Response”, SAI WBN-14004, www.strapdownassociates.com, June 29, 2014.

“Schuler Oscillations”, SAI WBN-14003, www.strapdownassociates.com, June 27, 2014.

“Redefining Gravity And Newtonian Natural Motion”, SAI WBN-14002, www.strapdownassociates.com, May 21, 2014.

“Mitigating Second Order Error Effects In Linear Kalman Filters Using Adaptive Process And Measurement Noise”, SAI WBN-14001, www.strapdownassociates.com, May 16, 2014.

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“Blazing Gyros: The Evolution of Strapdown Inertial Navigation Technology for Aircraft”, *AIAA Journal Of Guidance, Control, And Dynamics*, Vol. 36, No. 3, May - Jun 2013, pp. 637-655.

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