F. LANDIS MARKLEY

Journal Articles and Sections of Books

Physics

J-1967a   "Physical Interpretation of Static-Model Parameters," F. Landis Markley, *Physical Review*, Vol. 164, No. 5, December 1967, pp. 1848–1858.

J-1969a   "Spontaneously Broken SU_3 and Massive Vector Mesons," Y. S. Kim and F. Landis Markley, *il Nuovo Cimento*, Vol. LXIIIA, N. 1, 1° Settembre 1969, pp. 60–74.

J-1972a   "Probability Distribution of Momenta in an Infinite Square Well Potential," F. Landis Markley, *American Journal of Physics*, Vol. 40, October 1972, pp. 1545–1546.

J-1972b   "The Index of Refraction," F. Landis Markley, *American Journal of Physics* Vol. 40, December 1972, pp. 1799–1803,

J-1972c   "Microscopic and Macroscopic Views of the Brownian Motion," F. Landis Markley and David Park, *American Journal of. Physics*, Vol. 40, December 1972, pp. 1859–1860.

J-1973a   "Motion in the Schwarzschild Metric," F. Landis Markley, *American Journal of Physics.* Vol. 41, January 1973, pp. 45–50.

J-1973b   "Comment on 'On Quantum Mechanical Operators in Generalized Coordinates'," F. Landis Markley, *American Journal of Physics.* Vol. 41, May 1973, p. 746.

J-1973c   "Rate of a Moving Clock in General Relativity," F. Landis Markley, *Lettere al Nuovo Cimento* Vol. 7, No. 4, 20 Maggio 1973, pp. 133–134.

J-1973d   "Relativity Twins in the Kerr Metric," F. Landis Markley, *American Journal of Physics,* Vol. 41, November 1973, pp. 1246–1250.

J-1974a   "An Improved Power-Transfer Experiment," F. Landis Markley, *American Journal of Physics,* Vol. 42, September 1974, 781–783.

Engineering

B-1978a   "Modeling Sensor Electronics," Section 7.4 in *Spacecraft Attitude Determination and Control*, ed. by James R. Wertz, New York and Berlin, Springer Scientific + Business Media, 1978, pp. 242–249/

B-1978b   "Reaction Wheel Models," Section 7.9 in *Spacecraft Attitude Determination and Control*, ed. by James R. Wertz, New York and Berlin, Springer Scientific + Business Media, 1978, pp. 270–272.

B-1978c   "Parameterizations of the Attitude," Section 12.1 in *Spacecraft Attitude Determination and Control*, ed. by James R. Wertz, New York and Berlin, Springer Scientific + Business Media, 1978, pp. 410–420.

B-1978d   "Response to Torques," Section 15.2 in *Spacecraft Attitude Determination and Control*, ed. by James R. Wertz, New York and Berlin, Springer Scientific + Business Media, 1978, pp. 498–502.

B-1978e   "Equations of Motion," Section 16.1 in *Spacecraft Attitude Determination and Control*, ed. by James R. Wertz, New York and Berlin, Springer Scientific + Business Media, 1978, pp. 510–523.

B-1978f   "Motion of a Rigid Spacecraft," Section 16.2 in *Spacecraft Attitude Determination and Control*, ed. by James R. Wertz, New York and Berlin, Springer Scientific + Business Media, 1978, pp. 523–528.

B-1978g   Attitude Propagation (with C. B. Spence, Jr.)," Section 17.1 in *Spacecraft Attitude Determination and Control*, ed. by James R. Wertz, New York and Berlin, Springer Scientific + Business Media, 1978, pp. 558–566.

B-1978h   "Matrix and Vector Algebra," Appendix C in *Spacecraft Attitude Determination and Control*, ed. by James R. Wertz, New York and Berlin, Springer Scientific + Business Media, 1978, pp. 744–748.

J-1980a   "Orbit-Averaged Behavior of Magnetic Control Laws for Momentum Unloading," P. J. Camillo and F. Landis Markley, *Journal of Guidance and Control,* Vol. 3, No. 6, November–December 1980, pp. 563–568.

J-1982a   "Kalman Filtering for Spacecraft Attitude Estimation," E. J. Lefferts, F. L. Markley and M. D. Shuster, *Journal of Guidance, Control, and Dynamics* Vol. 5, No. 5, September–October 1982, pp. 417–429.

J-1983a "Использование Фильтров Калмана для Оцениваниие, Простран-твенной Ориентации КЛА," И. Дж. Леффертс, Ф. Л. Маркли, и М. Д. Шустер, Аэрокосмическая Техника, Том.1, с.135–149, Август 1983 г.

J-1986a "Approximate Cartesian State Transition Matrix," F. Landis Markley, *The Journal of the Astronautical Sciences*, Vol. 34, No. 2, April–June 1986, pp. 161–169.

J-1988a "Attitude Determination Using Vector Observations and the Singular Value Decomposition," F. Landis Markley, *The Journal of the Astronautical Sciences* Vol. 36, No. 3, July–September 1988, pp. 245–258.

J-1989a "Attitude Determination and Parameter Estimation Using Vector Observations: Theory," F. Landis Markley, *The Journal of the Astronautical Sciences* Vol. 37, No. 2, April–June 1989, pp. 41–58.

J-1990a "Minimal Parameter Solution of the Orthogonal Matrix Differential Equation," I. Y. Bar-Itzhack and F. Landis Markley, *IEEE Transactions on Automatic Control* Vol. 35, No. 3, March 1990, pp. 314–317.

J-1991a "Fast Orbit Propagator for Graphical Display," F. Landis Markley and James F. Jeletic, *Journal of Guidance, Control, and Dynamics* Vol. 14, No. 2, March–April 1991, pp. 473–475.

J-1991b "Attitude Determination and Parameter Estimation Using Vector Observations: Application," F. Landis Markley, *The Journal of the Astronautical Sciences* Vol. 39, No. 3, July–September 1991, pp. 367–381.

J-1993a "Attitude Determination Using Vector Observations: A Fast Optimal Matrix Algorithm," F. Landis, Markley, *The Journal of the Astronautical Sciences,* Vol. 41, No. 2, April–June, 1193, pp. 261–280.

J-1993b "New Dynamic Variables for Momentum-Bias Spacecraft," F. Landis Markley, *The Journal of the Astronautical Sciences*, Vol. 41, No. 4, October–December 1993, pp. 557–567,

J-1994a "New Quaternion Attitude Estimation Method," F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 17, No. 2, March-April 1994, pp. 407–409.

J-1994b "Zero-Gyro Safemode Controller for the Hubble Space Telescope," F. Landis Markley and John D. Nelson, *Journal of Guidance, Control, and Dynamics*, Vol. 17, No. 4, July–August 1994, pp. 815–822.

J-1994c "Autonomous Spacecraft Gyro Failure Detection Based on Conservation of Angular Momentum," F. Landis Markley, Kevin R. Kennedy, John D. Nelson, and Edward W. Moy, *Journal of Guidance, Control, and Dynamics*, Vol. 17, No. 6, November–December 1994. pp. 1385–1387.

J-1995a "Attitude Control System Conceptual Design for the GOES-N Spacecraft Series," F. Landis Markley, F. H. Bauer, J. J. Deily and M. D. Femiano, *Journal of Guidance, Control, and Dynamics*, Vol. 18, No. 2, March–April 1995, pp. 247–255.

J-1995b "Kepler Equation Solver," F. Landis Markley, *Celestial Mechanics and Dynamical Astronomy*, Vol. 63, No. 1, 1995, pp. 101–111.

J-1996a "Sliding Mode Control Using Modified Rodrigues Parameters," John L. Crassidis and F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 19, No. 6, November–December 1996, pp. 1381–1383.

J-1997a "Sequential Minimal-Parameter Attitude and Attitude-Rate Estimation From Vector Observations," Yaakov Oshman and F. Landis Markley, *Journal of the Chinese Society of Mechanical Engineers*, Vol. 19, No. 1, 1997, pp. 9–23.

J-1997b "Predictive Filtering for Attitude Estimation Without Rate Sensors," John L. Crassidis and F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 20, No. 3, May–June, 1997, pp. 522–527.

J-1997c "Predictive Filtering for Nonlinear Systems," John L. Crassidis and F. Landis Markley, *Journal of Guidance, Control, and Dynamics* Vol. 20,, No. 3, May–June 1997 pp. 566–572.

J-1997d "New Algorithm for Attitude Determination Using Global Positioning System Signals," John L. Crassidis and F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 20, No. 5, September–October 1997, pp. 891–896.

J-1997e "Nonlinear Predictive Control of Spacecraft," J. L. Crassidis, F. Landis Markley, T. C. Anthony,and S. F. Andrews, *Journal of Guidance, Control, and Dynamics*, Vol. 20, No. 6, November–December, pp. 1096–1103.

J-1997f "Minimum Model Error Approach for Attitude Estimation," John L. Crassidis and F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 20, No. 6, November–December 1997, pp. 1241–1247.

J-1998a "Unconstrained Optimal Transformation Matrix," F. Landis Markley and Itzhack Y. Bar-Itzhack, *IEEE Transactions on Aerospace and Electronic Systems,* Vol. 34, No. 1, January 1998, pp. 338–340.

J-1998b "Minimal-Parameter Attitude Matrix Estimation From Vector Observations," Yaakov Oshman and F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 21, No. 4, July–August 1998, pp. 595–602.

J-1999a "Efficient and Optimal Attitude Determination Using Recursive Global Positioning System Signal Operations," John L. Crassidis, E. Glenn Lightsey and F. Landis Markley, *Journal of Guidance, Control, and Dynamics,* Vol. 22, No. 2, March–April, 1999, pp.193–201.

J-1999b   "Global Positioning System Integer Ambiguity Resolution without Attitude Knowledge," John L. Crassidis, F. Landis Markley, and E. Glenn Lightsey, *Journal of Guidance, Control, and Dynamics*, Vol. 22, No. 2, March–April 1999, pp. 212–218.

J-1999c   "Sequential Attitude and Attitude-Rate Estimation Using Integrated-Rate Parameters," Yaakov Oshman and F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 22, No. 3, May–June 1999, pp. 385–394.

J-1999d   "Spacecraft Attitude/Rate Estimation Using Vector-Aided GPS Observations," Yaakov Oshman and F. Landis Markley, *IEEE Transactions on Aerospace and Electronic Systems*, Vol. 35, No. 3, pp. 1019–1032 (1999)

J-2000a   "Sequential Gyroless Attitude and Attitude-Rate Estimation From Vector Observations," Yaakov Oshman and F. Landis Markley, *Acta Astronautica*, Vol. 46, No. 7, July 2000, pp. 449–463.

J-2000b   "Optimal Variable-Structure Control Tracking of Spacecraft Maneuvers," John L. Crassidis, Srinivas R. Vadali and F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 23, No. 3, May–June 2000, pp. 564–566.

J-2000c   "Analytic Steady-State Accuracy of a Spacecraft Attitude Estimator," F. Landis Markley and R. G. Reynolds, *Journal of Guidance, Control, and Dynamics*, Vol. 23, No. 6, November–December 2000, pp. 1065–1067.

J-2000d   "Quaternion Attitude Estimation Using Vector Observations," F. Landis Markley and Daniele Mortari, *The Journal of the Astronautical Sciences*, Vol. 48, Nos. 2-3, April–September 2000, pp. 359–380.

J-2002a   "Fast Quaternion Attitude Estimation from Two Vector Measurements," F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 25, No. 2, March–April 2002, pp. 411–414.

J-2003a   "Attitude Error Representations for Kalman Filtering," F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 26, No. 2, March–April 2003, pp. 311–317.

J-2003b   "Unscented Filtering for Spacecraft Attitude Estimation," John L. Crassidis and F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 26, No. 4, July–August 2003, pp. 536–542.

J-2003c   "Generalization of the Euler Angles," Malcolm D. Shuster and F. Landis Markley, *The Journal of the Astronautical Sciences*, Vol. 51, No. 2, April–June 2003, pp. 123–132.

J-2004a   "Attitude Estimation or Quaternion Estimation?" F. Landis Markley, *The Journal of the Astronautical Sciences*, Vol. 52, Nos.1-2, January–June 2004, pp. 221–238.

J-2005a   "The Attitude Control System of the Wilkinson Microwave Anisotropy Probe," F. Landis Markley, S. F. Andrews, J. R. O'Donnell, Jr., and D. K. Ward, *Journal of Guidance, Control, and Dynamics*, Vol. 28, No. 3, May–June 2005, pp. 385–397.

J-2006a   "General Formula for Extracting the Euler Angles," Malcolm D. Shuster and F. Landis Markley, *Journal of Guidance, Control, and Dynamics,* Vol. 29, No. 1, January–February 2006, pp. 215–217.

J-2006b   "Attitude Filtering on SO(3)," F. Landis Markley, *The Journal of the Astronautical Sciences* Vol. 54, Nos. 3-4, July–December 2006, pp. 391–413.

J-2006c   "Attitude Estimation for Large Field-of-View Sensors," Yang Cheng, John L. Crassidis and F. Landis Markley, *The Journal of the Astronautical Sciences*, Vol. 54, No. 3-4, July–December 2006, pp. 433–448.

J-2007a   "Survey of Nonlinear Attitude Estimation Methods," John L. Crassidis, F. Landis Markley and Yang Cheng, *Journal of Guidance, Control, and Dynamics*, Vol. 30, No. 1, January–February 2007, pp. 12–28.

J-2007b   "Averaging Quaternions," F. Landis Markley, Yang Cheng, John L. Crassidis, and Yaakov Oshman, *Journal of Guidance, Control, and Dynamics*, Vol. 30, No. 4, July–August 2007, pp. 1193–1196.

J-2007c   "Optimal Linear Attitude Estimator," Daniele Mortari, F. Landis Markley and Puneet Singla, *Journal of Guidance, Control, and Dynamics*, Vol. 30, No. 6, November–December 2007, pp.1619–1627.

J-2008a   "Unit Quaternion from Rotation Matrix," F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 31, No. 2, March-April 2008, pp. 440–442.

J-2008b   "Optimal Attitude Matrix from Two Vector Measurements," F. Landis Markley, *Journal of Guidance, Control, and Dynamics*, Vol. 31, No. 3, May–June 2008, pp. 765–768.

Conference Publications

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C-1976a   "Dynamic Modeling for Attitude Determination," E. J. Lefferts and F. L. Markley, AIAA Paper 76–1910, *AIAA Guidance and Control Conference*, San Diego, California, August 1976, 10 pp. (presented but not included in the proceedings volume).

C-1977a   "Onboard Magnetic Field Modeling for Solar Maximum Mission (SMM)," R. D. Headrick and F. L. Markley, AAS paper 77–181, *AAS/AIAA Astrodynamics Conference*, Grand Teton National Park, Wyoming, September 1977, 18 pp. (Part of this conference paper is missing and has been replaced here by material from a CSC company report. No proceedings volume was created for this conference).

C-1978a   "Attitude Control Algorithms for the Solar Maximum Mission," F. L. Markley, AIAA Paper 78–1247, *Proceedings, AIAA Guidance and Control Conference*, Palo Alto, California, August 1978, pp. 59–69.

C-1979a   "Large Angle Maneuver Strategies for Flexible Spacecraft," F. Landis Markley, AAS paper 79–156. *AAS/AIAA Astrodynamics Conference*, Provincetown, Massachusetts, June 1979; Proceedings: *Advances in the Astronautical Sciences, Vol. 40, Part II*, 1980, pp. 625–647.

C-1981a   "Current Research Activities in Astrodynamics at the Naval Research Laboratory," K. T. Alfriend, R. R. Dasenbrock, B. Kaufman, and F. L. Markley, AIAA Paper 81-0024, *AIAA 19th Aerospace Sciences Meeting, St. Louis, Missouri*, January 1981, 9 pp. (invited paper, no proceedings volume was created for this conference).

C-1981b   "Autonomous Satellite Navigation Using Landmarks," F. L. Markley, AAS Paper 81-205, AAS/AIAA Astrodynamics Specialist Conference, Lake Tahoe, New York, August 1981; Proceedings: *Advances in the Astronautical Sciences, Vol. 46, Part II*, 1982, pp. 989–1010.

C-1982a   "Kalman Filtering for Spacecraft Attitude Estimation," E. J. Lefferts, F. L. Markley, and M. D. Shuster, AIAA Paper 82-0070, *AIAA 20th Aerospace Sciences Meeting*, Orlando, Florida, January 1982, 17 pp. (invited paper, no proceedings volume was created for this conference).

C-1982b   "Geopositioning Accuracy of an Autonomous Navigation System Using Landmarks," F. Landis Markley, *Proceedings, the 1982 American Control Conference*, Arlington, Virginia, June 1982, Vol. 2, pp. 528–633 (invited paper).

C-1984a   "Autonomous Navigation Using Landmark and Intersatellite Data," F. Landis Markley, AIAA Paper 84-1987, *AIAA/AAS Astrodynamics Conference*, Seattle, Washington, August 1984; Proceedings: Advances in the Astronautical Sciences, Vol. 65, 1984, 12 pp.

C-1985a   "Easily Computable Cartesian State Transition Matrix," F. Landis Markley, AAS paper 85-389, *AAS/AIAA Astrodynamics Specialist Conference*, Vail, Colorado, August 1985; Proceedings: Advances in the Astronautical Sciences, Vol. 58, 1985, 12 pp.

C-1987a   "Three-Axis Attitude Determination Using Vector Observations and the Singular Value Decomposition," F. Landis Markley, AAS Paper 87-490, *AAS/AIAA Astrodynamics Specialist Conference*, Kalispell, Montana, August 1987; Proceedings: *Advances in the Astronautical Sciences*, Vol. 65, microfiche supplement,1987, 21 pp.

C-1988a   "A General Model for Attitude Determination Error Analysis," F. Landis Markley, E. Seidewitz and M. Nicholson, *Proceedings, Flight Mechanics/Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1988, NASA Conference Publication 3011, pp. 3–25.

C-1988b   "Minimal Parameter Solution of the Orthogonal Matrix Differential Equation," I. Y. Bar-Itzhack and F. Landis Markley, *Proceedings, Flight Mechanics/Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1988, NASA Conference Publication 3011, pp. 62–88.

C-1988c   "GOES Dynamic Propagation of Attitude," F. Landis Markley, E. Seidewitz, Don Chu, and John N. Rowe, *Proceedings, Flight Mechanics/Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1988, NASA Conference Publication 3011, pp. 430–455.

C-1988d   "Embedding of Attitude Determination in *n*-Dimensional Spaces," I. Y. Bar-Itzhack, and F. Landis Markley, AIAA Paper 88-4146, *Proceedings, AIAA/AAS Astrodynamics Specialist Conference*, Minneapolis, Minnesota, August 1988, pp. 799–809.

C-1988e   "Attitude Determination and Parameter Estimation Using Vector Observations," F. Landis Markley, AIAA Paper 88-4225, AIAA/AAS *Proceedings, Astrodynamics Specialist Conference, Minneapolis*, Minnesota, August 1988, pp. 121–129.

C-1988f   "An Improved V-Lambda Solution of the Matrix Riccati Equation," I. Y. Bar-Itzhack and F. Landis Markley, *Proceedings, 27th IEEE Conference on Decision and Control*, Austin, Texas, December 1988, pp. 388–389.

C-1989a   "Simultaneous Quaternion Estimation (QUEST) and Bias Determination," F. Landis Markley, *Proceedings, Flight Mechanics/Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1989, NASA Conference Publication 3050, pp. 51–63.

C-1989b   "Attitude Determination and Parameter Estimation Using Vector Observations: Application," F. Landis Markley, AAS Paper 89-364, AAS/AIAAS Astrodynamics Specialist Conference, Stowe, Vermont, August 1989; Proceedings: *Advances in the Astronautical Sciences,* Vol. 71, Part I, 1990, pp. 125–138.

C-1989c   "Attitude Determination Error Analysis: General Model and Specific Application," F. Landis, Markley, Ed Seidewitz and Julie Deutschmann, CNES Space Dynamics Conference, Toulouse, France, November 1989: Proceedings: *Mécanique Spatiale*, CEPADUES Editions, Toulouse, 1989, 16 pp.

C-1990a   "Comparison of Two On-Orbit Attitude Sensor Alignment Methods," K. Krack, M. Lambertson, and F. Landis Markley, *Proceedings, Flight Mechanics/Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1990, NASA Conference Publication 3102, pp. 3–20.

C-1990b   "Onboard Attitude Determination and Control Algorithms for SAMPEX," Thomas W. Flatley, Josephine K. Forden, Debra. A. Henretty, E. Glenn Lightsey, and F. Landis Markley, *Proceedings, Flight Mechanics/ Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1990, NASA Conference Publication 3102, pp. 379–398.

C-1991a   "Quaternion Normalization in Additive EKF for Spacecraft Attitude Determination," I. Bar-Itzhack, J. Deutschmann, and F. Landis Markley, AIAA Paper 91-2706, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, New Orleans, Louisiana, August 1991, pp. 908–916.

C-1991b   "Attitude Control System Conceptual Design for the GOES-N Spacecraft Series," F. L. Markley, F. H. Bauer, J. . Deily and M. D. Femiano, AIAA Paper 91-2832, *Proceedings, AIAA Guidance, Navigation, and Control Conference,* New Orleans, Louisiana, August 1991, pp. 1957–1971.

C-1992a   "SAMPEX Science Pointing with Velocity Avoidance," Joseph P. Frakes, Debra A. Henretty, Thomas W. Flatley, F. Landis Markley, Josephine K. San, and E. Glenn Lightsey, AAS Paper 92-182, AAS/AIAA Spaceflight Mechanics Meeting, Colorado Springs, Colorado, February 1992; Proceedings: *Advances in the Astronautical Sciences,* Vol. 79, Part II, 1998, pp. 949–966.

C-1992b   "Testing of the Onboard Attitude Determination and Control Algorithms for SAMPEX," Jon D. McCullough, Thomas W. Flatley, Debra A. Henretty, F. Landis Markley, and Josephine K. San, *Proceedings, Flight Mechanics/ Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1992, NASA Conference Publication 3186, pp. 55–68.

C-1992c   "Quaternion Normalization in Spacecraft Attitude Determination," J. Deutschmann, F. L. Markley and I. Y. Bar-Itzhack, *Proceedings, Flight Mechanics/Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1992, NASA Conference Publication 3186, pp. 523–536.

C-1992d   "Attitude Determination Using Vector Observations: a Fast Optimal Matrix Algorithm," F. Landis Markley, *Proceedings, Flight Mechanics/Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1992, NASA Conference Publication 3186, pp. 537–551

C-1992e   "A Zero-Gyro Safemode Controller for HST," F. Landis Markley and John D. Nelson, AIAA Paper 92-4613, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Hilton Head, South Carolina, August 1992, pp. 1445–1349.

C-1993a   "H∞-Type Filter for Spacecraft Attitude Estimation," F. Landis Markley, Nadav Berman and Uri Shaked, AAS Paper 93-298, *AAS/GSFC International Symposium on Spaceflight Dynamics*, Goddard Space Flight Center, Greenbelt, Maryland, April 1993; Proceedings: *Advances in the Astronautical Sciences,* Vol. 84, Part I, 1994, pp. 697–711.

C-1993b   "New Dynamic Variables for Rotating Spacecraft," F. Landis Markley*, AAS Paper 93-330, AAS/GSFC International Symposium on Spaceflight Dynamics*, Goddard Space Flight Center, Greenbelt,Maryland, April 1993; Proceedings: *Advances in the Astronautical Sciences,* Vol. 84, Part II, 1993, pp.1149–1163.

C-1993c   "On-Orbit Test of the HST Zero-Gyro Safemode Controller," F. Landis Markley, Greg C. Andersen and John D. Nelson, AIAA Paper 93-3831, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Monterey, California, August 1993, pp. 1159–1167.

C-1994a   "Deterministic EKF-like Estimator for Spacecraft Attitude Estimation," F. L. Markley, N. Berman and U. Shaked, Paper AIAA-65, *Proceedings, American Control Conference*, Baltimore, Maryland, June 29–July 1,1994, pp. 247–251.

C-1994b   "A Real-Time Model Error Filter and State Estimator," John L. Crassidis, F. Landis Markley and D. Joseph Mook, AIAA Paper 94-3550, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Scottsdale, Arizona, August 1994, pp. 92–102.

C-1994c   "A Zero-Gyro, Zero-Wheel Controller for Hubble Space Telescope," Gurpartap S. Sandhoo, Nabih E. Bedewi, Tom W. Flatley, David J. Mangus, and F. Landis Markley, AIAA Paper 94-3618, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Scottsdale, Arizona, August 1994, 11 pp.

C-1995a   "Kepler Equation Solver," F. Landis Markley, *Proceedings, Flight Mechanics/Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1995, NASA Conference Publication 3299, pp. 47–57.

C-1995b   "An MME-Based Attitude Estimator Using Vector Observations," John L. Crassidis and F. Landis Markley, *Proceedings, Flight Mechanics/ Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1995, NASA Conference Publication 3299, pp. 137–151.

C-1995c   "SAMPEX Special Pointing Mode," F. Landis Markley, Thomas W. Flatley and Theodore Leoutsakos, *Proceedings, Flight Mechanics/Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1995, NASA Conference Publication 3299, pp. 201–215.

C-1995d   "A New Angle on the Euler Angles," F. Landis Markley and Malcolm D. Shuster, *Proceedings, Flight Mechanics/Estimation Theory Symposium,* Goddard Space Flight Center, Greenbelt, Maryland, May 1995, NASA Conference Publication 3299, pp. 395–403

C-1995e   "Contingency Designs for Attitude Determination of TRMM,"John L. Crassidis, Stephen F. Andrews, F. Landis Markley, and Kong Ha, *Proceedings, Flight Mechanics/Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1995, NASA Conference Publication 3299, pp. 419–433

C-1995f   "A Minimum Model Error Approach for Attitude Estimation," John L. Crassidis and F. Landis Markley, AIAA Paper 95-3276, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Baltimore, Maryland, August 1995, pp. 956–966.

C-1995g   "Orbital Reboost of the Compton Gamma Ray Observatory," David J. Mangus, F. Landis Markley, and James O'Donnell, Jr., AIAA Paper 95-3356, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Baltimore, Maryland, August 1995, pp. 1645–1655.

C-1996a   "Predictive Filtering for Attitude Estimation Without Rate Sensors," John L. Crassidis and F. Landis Markley, AAS Paper-96-174, *AAS/AIAA Space Flight Mechanics Meeting*, Austin, TX, February 1996; Proceedings: *Advances in the Astronautical Sciences, Vol. 93, Part II*, 1996, pp. 1021–1036

C-1996b   "Attitude Estimation Using Modified Rodrigues Parameters," John L. Crassidis and F. Landis Markley, *Proceedings, Flight Mechanics/ Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1996, NASA Conference Publication 3333, pp. 71–83.

C-1996c   "Attitude Determination Improvements for GOES," John L. Crassidis, F. Landis Markley, Arthur M. Kyle, and Kathie Kull, *Proceedings, Flight Mechanics/ Estimation Theory Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1996, NASA Conference Publication 3333, pp. 161–165.

C-1996d   "Nonlinear Filtering Based on Sequential Model Error Determination," John L. Crassidis and F. Landis Markley, *Proceedings, 4th IEEE Mediterranean Symposium on Control and Automation*, Chania, Crete, Greece, June 1996. pp. 528–533.

C-1996e   "Predictive Filtering for Nonlinear Systems," John L. Crassidis and F. Landis Markley, AIAA Paper 96-3775, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, San Diego, California, July 1996, 11 pp.

C-1996f   "Attitude Determination Designs for the GOES Spacecraft," John L. Crassidis, F. Landis Markley, and Arthur M. Kyle, Paper No. 74, *SPIE International Symposium on Optical Science, Engineering, and Instrumentation*, Denver, Colorado, August 1996, 12 pp.

C-1997a   "Nonlinear Predictive Control of Spacecraft," John L. Crassidis, F. Landis Markley, Tobin C. Anthony, and Stephen F. Andrews, AIAA Paper 97-0114, 35th AIAA Aerospace Sciences Meeting, Reno, Nevada, January 1997, 10 pp. (no proceedings volume was created for this conference).

C-1997b   "Predictive Attitude Estimation Using Global Positioning System Signals," John L. Crassidis, F. Landis Markley, E. Glenn Lightsey, and Eleanor Ketchum, *Proceedings, Flight Mechanics Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1997, NASA Conference Publication 3345, pp. 107–120.

C-1997c   "A Predictive Attitude Determination Algorithm," John L. Crassidis and F. Landis Markley, *Proceedings, Flight Mechanics Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1997, NASA Conference Publication 3345, pp. 249–263.

C-1997d   "Efficient Sequential Attitude Estimation from Vector Observations," Yaakov Oshman and F. Landis Markley, *Proceedings, Flight Mechanics Symposium,* Goddard Space Flight Center, Greenbelt, Maryland, May 1997, NASA Conference Publication 3345, pp. 331–345.

C-1997e   "MAP Attitude Control System Design and Analysis," S. F. Andrews, C. E. Campbell, A. J. Ericsson-Jackson, F. L. Markley, and J. R. O'Donnell, Jr., *Proceedings, Flight Mechanics Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1997, NASA Conference Publication 3345, pp. 445–456.

C-1997f   "Minimal-Parameter Attitude Matrix Estimation From Vector Observations," Yaakov Oshman and F. Landis Markley, AIAA Paper 97-3451, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, New Orleans, Louisiana, August 1997, pp. 12–22.

C-1997g   "Attitude Determination Using Global Positioning System Signals," John L. Crassidis and F. Landis Markley, AIAA Paper 97-3452, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, New Orleans, Louisiana, August 1997, pp. 23–31.

C-1997h   "Sequential Gyroless Attitude and Attitude-Rate Estimation From Vector Observations," Yaakov Oshman and F. Landis Markley, IAF Paper 97-A.2.07, *48th International Astronautical Congress*, Turin, Italy, October 1997, 12 pp.

C-1998a   "Optimal Integer Resolution for Attitude Determination Using Global Positioning System Signals," John L. Crassidis, F. Landis Markley, and E. Glenn Lightsey, AAS Paper 98-331, *AAS/GSFC International Symposium on Spaceflight Dynamics*, Goddard Space Flight Center, Greenbelt, Maryland, May 1998, NASA Conference Publication NASA/CP-1998-206858/VOL1; Proceedings: *Advances in the Astronautical Sciences, Vol. 84, Part I,* 1998, pp. 329–344.

C-1998b   "Attitude/Attitude-Rate Estimation from GPS Differential Phase Measurements Using Integrated-Rate Parameters," Yaakov Oshman and F. Landis Markley, AAS Paper 98-329, *AAS/GSFC International Symposium on Spaceflight Dynamics*, Goddard Space Flight Center, Greenbelt, Maryland, May 1998, NASA Conference Publication NASA/CP-1998-206858/VOL1; Proceedings: *Advances in the Astronautical Sciences, Vol. 100, Part I*, 1998, pp. 351–365.

C-1998c   "MAP Stability, Design, and Analysis," A. J. Ericsson-Jackson , S. F. Andrews, J. R. O'Donnell, Jr., and F. L. Markley, AAS Paper 98-378, *AAS/GSFC International Symposium on Spaceflight Dynamics*, Goddard Space Flight Center, Greenbelt, Maryland, May 1998, NASA Conference Publication NASA/CP-1998-206858/VOL2; Proceedings: *Advances in the Astronautical Sciences, Vol. 84, Part II*, 1998, pp. 937–951.

C-1998d   "A Novel Sensor for Attitude Determination Using Global Positioning System Signals," John L. Crassidis, David A. Quinn, F. Landis Markley, and Jon D. McCullough, AIAA Paper 98-4228, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Boston, Massachusetts, August 1998, pp. 708–717.

C-1998e   "Application of Vectorized Attitude Determination Using Global Positioning System Signals," John L. Crassidis, F. Landis Markley and E. Glenn Lightsey, AIAA Paper 98-4390, AIAA/AAS Astrodynamics Specialist Conference, Boston, Massachusetts, August 1998, 10 pp. (no proceedings volume was created for this conference),

C-1998f   "Efficient and Optimal Attitude Determination Using Recursive Global Positioning System Signal Operations," John L. Crassidis, E. Glenn Lightsey, and F. Landis Markley, AIAA Paper 98-4496, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Boston, Massachusetts, August 1998, pp.1813–1823.

C-1998g   "Sequential Gyroless Attitude/Attitude-Rate Estimation Using Integrated-Rate Parameters," Yaakov Oshman and F. Landis Markley, AIAA Paper 98-4508, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Boston, Massachusetts, August 1998, pp. 1900–1910

C-1999a   "Attitude Determination Using Two Vector Measurements," F. Landis Markley, *Proceedings, Flight Mechanics Symposium*, Goddard Space Flight Center, Greenbelt, Massachusetts, May 1999, NASA Conference Publication NASA/CP-1999-209235, pp. 39–52

C-1999b   "Optimal Variable-Structure Control Tracking of Spacecraft Maneuvers," John L. Crassidis, Srinivas R. Vadali, and F. Landis Markley, *Proceedings, Flight Mechanics Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1999, NASA Conference Publication NASA/CP-1999-209235, pp. 201–214

C-1999c   "Nonlinear Fuzzy Hybrid Control of Spacecraft," Paul A. C. Mason, John L. Crassidis and F. Landis Markley, *Proceedings, Flight Mechanics Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, May 1999, NASA Conference Publication NASA/CP-1999-209235, pp. 241–252

C-1999d   "Optimal Magnetic Attitude Control," Rafal Wisniewski and F. Landis Markley, *IFAC 14th World Congress*, Beijing, People's Republic of China, July 1999, 6 pp.

C-1999e   "Fast Integer Ambiguity Resolution for GPS Attitude Determination," John L. Crassidis, E. Glenn Lightsey, and F. Landis Markley, AIAA Paper 99-3967, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Portland, Oregon, August 1999, pp. 403–412.

C-1999f   "How to Estimate Attitude from Vector Observations," F. Landis Markley and Daniele Mortari, AAS Paper 99-427, *AAS/AIA Astrodynamics Specialist Conference*, Girdwood, Alaska, August 1999; Proceedings: *Advances in the Astronautical Sciences, Vol. 103, Part III*, 2000, pp. 1979–1996.

C-2000a   "Optimal Linear Attitude Estimator," Daniele Mortari, F. Landis Markley and John L. Junkins, AAS Paper 00-129, *AAS/AIAA Space Flight Mechanics Winter Meeting*, Clearwater, Florida, January 2000; Proceedings: *Advances in the Astronautical Sciences, Vol. 105, Part I*, 2000, pp. 465–477.

C-2000b   "Singularity and Attitude Estimation," Daniele Mortari, Michela Angelucci, and F. Landis Markley, AAS Paper 00-130, AAS/AIAA Space Flight Mechanics Winter Meeting, Clearwater, Florida, January 2000; Proceedings: *Advances in the Astronautical Sciences, Vol. 105, Part I*, 2000, pp. 479–493.

C-2000c   "Spacecraft Attitude Determination Methods," F. Landis Markley, *40th Israel Annual Conference on Aerospace Sciences*, Tel-Aviv and Haifa, Israel, February 23–24, 2000, 21 pp. (invited keynote address).

C-2000d   "New Developments in Quaternion Estimation from Vector Observations," F. Landis Markley and Daniele Mortari, AAS Paper 00-266, *The Richard H. Battin Astrodynamics Symposium*, College Station, Texas, March 20–21, 2000; Proceedings: *Advances in the Astronautical Sciences,* Vol. 106, 2000, pp. 373–393.

C-2001a   "Hubble Space Telescope Servicing Mission 3A Rendezvous Operations," S. Lee, S. Anandakrishnan, C. Connor, E. Moy, D. Smith, M. Myslinski, L. Markley, and A. Vernacchio, AAS Paper 01-073, *24th Annual AAS Guidance and Control Conference*, Breckenridge, Colorado, February 2001: Proceedings: *Advances in the Astronautical Sciences*, Vol. 107, 2001, pp. 615–629.

C-2001b   "Maximal Torque and Momentum Envelopes for Reaction Wheel Arrays," R. G. Reynolds and F. Landis Markley, *Proceedings, Flight Mechanics Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, June 2001, NASA Conference Publication NASA/CP-2001-209986, pp. 327–334.

C-2001c   "Hubble Space Telescope Servicing Mission 3A Rendezvous Operations," S. Lee, S. Anandakrishnan, C. Connor, E. Moy, D. Smith, M. Myslinski, L. Markley, and A. Vernacchio, *Proceedings, Flight Mechanics*

Symposium, Goddard Space Flight Center, Greenbelt, Maryland, June 2001, NASA Conference Publication NASA/CP-2001-209986, pp. 529–543.

C-2001d   "Attitude Representations for Kalman Filtering," F. Landis Markley, AAS Paper 01-309, AAS/AIAA Astrodynamics Specialist Conference, Quebec City, Quebec, Canada, August 2001, Proceedings: *Advances in the Astronautical Sciences*, Vol. 109, 2001, pp. 133–151.

C-2002a   "The Microwave Anisotropy Probe Attitude Control System," F. L. Markley, S. F. Andrews, J. R. O'Donnell, Jr., D. K. Ward, and A. J. Ericsson, *Proceedings, 5th Cranfield Conference on Dynamics and Control of Systems and Structures in Space,* ed. by T. S. Bowling, Cranfield University Press, Cranfield, Bedford, UK, 2002, pp. 43–49.

C-2002b   "The Microwave Anisotropy Probe (MAP) Mission," F. Landiis Markley, James R. O'Donnell, Jr., Stephen F. Andrews, and David K. Ward, AIAA Paper 2002-4578, *Proceedings, AIAA Guidance, Navigation, and Control Conference, Monterey*, California, August 2002, 10 pp.

C-2002c   "100-Microarsecond Imaging Telescope," K. C Gendreau, J. Leitner, L. Markley, W. C. Cash, and A. F. Shipley, SPIE Paper 4852-46, *Astronomical Telescopes and Instrumentation Conference*, Waikoloa, Hawaii, USA, August 2002, 10 pp.

C-2002d   "Disturbance Reduction System: Testing Technology for Precision Formation Control," W. M. Folkner, S. Buchman, R. L. Byer, D. DeBra, C. J. Dennehy, M. Gamero-Castaño, J. Hanson, V. Hruby, G. M. Keiser, A. Kuhnert, F. L. Markley, M. Houghton, P. Maghami, D. Miller, S. Prakash, and R. Spero, SPIE Paper 4860-??, *Astronomical Telescopes and Instrumentation Conference*, Waikoloa, Hawaii, August 2002, 8 pp.

C-2002e   "Controller Design for the ST7 Disturbance Reduction System," P. G. Maghami, F. L. Markley, C. J. Dennehy, M. B. Houghton, and W. M. Folkner, *5th International ESA Conference on Guidance Navigation and Control Systems*, Frascati, Italy, October 2002, 7 pp.

C-2003a   "Design and Analysis of the ST7 Disturbance Reduction System (DRS) Spacecraft Controller," P. G. Maghami, F. L. Markley, M. B. Houghton, and C. J. Dennehy, *AAS Guidance and Control Conference*, Breckenridge, Colorado, February 2003: Proceedings: *Advances in the Astronautical Sciences*, Vol. 113, 2003, pp. 485–495.

C-2003b   "Attitude Estimation or Quaternion Estimation?" Paper AAS 03–264, F. Landis Markley, The *John L. Junkins Astrodynamics Symposium, College Station*, Texas, May 2003; Proceedings: *Advances in the Astronautical Sciences*, Vol. 115, 2003, pp. 113–127.

C-2003c   "18-Degree-of-Freedom Controller Design for the ST7 Disturbance Reduction System," F. L. Markley, P. G. Maghami, M. B. Houghton, and O. C. Shu, Paper AAS 03-586, AAS/AIAA Astrodynamics Specialists Conference, Big Sky, Montana, August 2003; Proceedings: Advances in the Astronautical Sciences, Vol. 116, Part II, 2003, pp. 1351–1361.

C-2003d   "Unscented Filtering for Spacecraft Attitude Estimation," John L. Crassidis and F. Landis Markley, AIAA Paper 2003-5484, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Austin, Texas, August 2003, 10 pp. (Best Paper).

C-2003e   "Attitude Estimation or Quaternion Estimation?" F. Landis Markley, *Proceedings, Flight Mechanics Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, October 2003, NASA Conference Publication NASA/CP-2003-212246, 15 pp.

C-2003f   "Disturbance Reduction Control Design for the ST7 Flight Validation Experiment," P. G. Maghami, O. C. Shu, F. L. Markley, and M. B. Houghton, *Proceedings, Flight Mechanics Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, October 2003, NASA Conference Publication NASA/CP-2003-212246, 14 pp.

C-2003g   "Thruster Placement Issues and Possible Mitigation Methods for the ST7 Disturbance Reduction System," O. C. Shu, P. G. Maghami, F. Markley, and M. B. Houghton, *Proceedings, Flight Mechanics Symposium*, Goddard Space Flight Center, Greenbelt, Maryland, October 2003, NASA Conference Publication NASA/CP-2003-212246, 10 pp.

C-2004a   "Multiplicative vs. Additive Filtering for Spacecraft Attitude Determination," F. Landis Markley, *Proceedings, 6th Cranfield Conference on Dynamics and Control of Systems and Structures in Space*, ed. by Stephen Hobbs, Cranfield University Press, Cranfield, Bedford, UK, 2004, pp. 467–474.

C-2004b   "Control Modes of the ST7 Disturbance Reduction System Flight Validation Experiment," O. C. Hsu, P. G. Maghami, F. L. Markley, and J. R. O'Donnell, SPIE Paper 5528A-17, *Space Systems Optomechanics and Dynamics Conference*, Denver, Colorado, August 2–6, 2004, 12 pp.

C-2004c   "Mode Transitions for the ST7 Disturbance Reduction System Experiment," O. C. Hsu, P. G. Maghami, F. L. Markley, and J. R. O'Donnell Jr., AIAA Paper 2004-5429, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Providence, Rhode Island, August 2004, 13 pp.

C-2005a   "Attitude Filtering on SO(3)," F. Landis Markley, AAS Paper 05-460, *The Malcolm D. Shuster Astronautics Symposium*, Grand Island, New York, June 2005; Proceedings: *Advances in the Astronautical Sciences,* Vol. 122, 2006, pp. 149–174.

C-2005b   "Attitude Estimation for Large Field-of-View Sensors," Yang Cheng and John L. Crassidis and F, Landis Markley, AAS Paper 06-238, *The Malcolm D. Shuster Astronautics Symposium,* Grand Island, New York, June 2005; Proceedings: *Advances in the Astronautical Sciences, Vol. 122*, 2006, pp. 193–208,

C-2005c "Nonlinear Attitude Filtering Methods," F. Landis Markley, John L. Crassidis and Yang Cheng, AIAA Paper 2005-5927, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, San Francisco, California, August 2005, 32 pp.

C-2006a "Humble Problems," (Dirk Brouwer Lecture), F. Landis Markley, Paper AAS-06–238, AAS/AIAA Space Flight Mechanics Meeting, Tampa, Florida, January 2006; Proceedings, *Advances in the Astronautical Sciences*, Vol. 124, Part II, 2006, pp. 2205 –2222.

C-2006b "Space Technology 7 Disturbance Reduction System —Precision Control Flight Validation," A. Carmain, C. Dunn, W. Folkner, V. Hruby, D. Spence, N. Demmons, T. Roy, R. McCornick, C. Gasdaska, J. Young, W. Connolly, J. O'Donnell, F. Markley, P. Maghami, and O. Hsu, *IEEE Aerospace Conference*, Big Sky, Montana, March 4–11, 2006, 7 pp.

C-2006c "The Space Technology-7 Disturbance Reduction System Precision Control Flight Validation Experiment Control System Design," James R. O'Donnell, Oscar C. Hsu, Peiman G. Maghami, F. Landis Markley, Paper ISTS-2006-160645, *Proceedings, 19th International Symposium on Space Flight Dynamics*, Kanazawa, Japan, June 4–11, 2006, pp. 371–382.

C-2006d "Kalman Filtering of Angular-Momentum-Based Attitude Parameters," F. Landis Markley and Joseph E. Sedlak, *Proceedings, 7th Cranfield Conference on Dynamics and Control of Systems and Structures in Space*, ed. by Stephen Hobbs, Cranfield University Press, Cranfield, Bedford, UK, 2006, pp. 371–382.

C-2006e "Mated Flight Control Is-sues for Space Exploration Systems," Kyong B. Lim, F. Landis Markley, and Mark S. Whorton, AIAA Paper 2006-6334, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Keystone, Colorado, August 2006, 11 pp.

C-2007a "Averaging Quaternions," Yang Cheng, F. Landis Markley, John L. Crassidis, and Yaakov Oshman, AAS Paper 07-213, *AAS/AIAA Space Flight Mechanics Meeting*, Sedona, Arizona, January 2007; Proceedings, Advances in the Astronautical Sciences, Vol. 127, Part II, 2007, pp. 1675–1682.

C-2007b "Kalman Filter for Spinning Spacecraft Attitude Estimation," F. Landis Markley and Joseph E. Sedlak, AIAA Paper 2007-6812, *Proceedings, AIAA Guidance, Navigation, and Control Conference*, Hilton Head, South Carolina, August 2007, 16 pp.

C-2008a "James Webb Space Telescope Sun Protection,'' Judy Tillman, Satya Anandakrishnan, Delaram Gidanian, Henry Fu, Magdy Wahbah, F. Landis Markley, Peiman Maghami, and Ken Lebsock, Paper AAS 08–035, *Proceedings, 31st Annual AAS Guidance and Control Conference*, Breckenridge, Colorado, February 1–6, 2008,; Proceedings: *Advances in the Astronautical Sciences*, Vol. 31, 2008 (in preparation),.14 pp.

C-2008b "Sampex Spin-Stabilized Mode," Dean C. Tsai, F. Landis Markley, and Todd P. Watson, *Space Ops 2008*, Heidelberg, Germany, May 12–16, 2008, 10 pp.

C-2008c "Lessons Learned," F. Landis Markley, *The AAS F. Markley Astronautics Symposium*, Cambridge, Maryland, June 28–July 2, 2008; Proceedings to appear in the *Advances in the Astronautical Sciences*, 20 pp.

Journal Articles in Press

Preprint "Kalman Filter for Spinning Spacecraft Attitude Estimation," F. Landis Markley and Joseph E. Sedlak, *Journal of Guidance, Control and Dynamics,* to appear)