Andrew J. Sinclair Publications

Journal Articles


Andrew J. Sinclair Publications


Conference Papers


   -selected one of ten best papers out of 258.


Exact Solutions to 1D Unsteady and 2D Steady Problems”, AIAA 2009-3652, AIAA Computational Fluid

25. A.J. Sinclair and J.E. Hurtado, “The Eleventh Motion Constant of the Two-Body Problem”, AAS 10-
180, AAS/AIAA Space Flight Mechanics Meeting, San Diego, California, 14-17 February 2010, published in


Modeling Relative Motion of Noncircular Satellites”, AAS 11-214, AAS/AIAA Space Flight Mechanics
Meeting, New Orleans, Louisiana, 13-17 February 2011, published in Advances in the Astronautical

Motion of Noncircular Satellites”, AAS 11-208, AAS/AIAA Space Flight Mechanics Meeting, New Orleans,
Louisiana, 13-17 February 2011, published in Advances in the Astronautical Sciences, Vol. 140, Univelt,
pp. 1515-1524.

Trajectories Using the Method of Nearby Problems”, AAS 11-281, AAS/AIAA Space Flight Mechanics
Meeting, New Orleans, Louisiana, 13-17 February 2011, published in Advances in the Astronautical

EuroGNC Conference, Munich, Germany, 13-15 April 2011.

Wiltshire Equations”, AAS 12-103, AAS/AIAA Space Flight Mechanics Meeting, Charleston, South
Carolina, 29 January - 2 February 2012, published in Advances in the Astronautical Sciences, Vol. 143,
Univelt, pp. 45-52.

Equations for Satellite Relative Motion”, AAS 12-149, AAS/AIAA Space Flight Mechanics Meeting,
Charleston, South Carolina, 29 January - 2 February 2012, published in Advances in the Astronautical

Proximity Using Angles-Only Observations”, AAS 12-202, AAS/AIAA Space Flight Mechanics Meeting,
Charleston, South Carolina, 29 January - 2 February 2012, published in Advances in the Astronautical

Motion in Elliptic Orbits”, IAA-AAS-DyCoSS1-06-09, IAA Conference on Dynamics and Control of Space


Conference Presentations without Papers


Other Publications


Invited Seminars


17. “Fundamental Solutions for Satellite Relative Motion in Elliptic Orbits”, University of Strathclyde, Mechanical & Aerospace Engineering Department, Glasgow, United Kingdom, 24 April 2012.


20. “Calibrated and Decalibrated Linear Approximations of Dynamic Systems”, Texas A&M University, Aerospace Engineering Department, College Station, Texas, 18 September 2014.