



The Design and Simulated Performance of the Attitude Determination and Control System of a Gravity Gradient Stabilized Cube Satellite

Windell Jones

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This is a master's project report submitted to the mechanical engineering department of the University of Hawai'i at Mānoa. It discusses the design and simulated performance of the Attitude Determination and Control Subsystem of a 3U cube satellite named Hoʻoponopono (H2). H2 was developed at the UH Mānoa College of Engineering's Small-Satellite Laboratory. Its mission was to aid in the radar calibration process of U.S. Air Force radar stations by providing a calibration source in orbit. Its gravity-gradient ADCS was designed to point H2 in the nadir direction for the entirety of its mission lifetime. The unique issues associated with achieving gravity-gradient stabilization is discussed. To ensure that the functionality and performance requirements were satisfied, the Nanosatellite Attitude Dynamics & Determination Simulator (NADDS) was developed and used to determine the energies and times required for H2 to achieve nadir pointing.

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