

**development coupled expert system for the spacecraft ...** - development of a coupled expert system for the spacecraft attitude control problem k. kawamura, g. beale, j. schaffer, t3.-j. hsieh, s. padalkar and j. rodriguez-moscoso center for intelligent systems nashville, tn 37235 f. vinz and k. fernandez national aeronautics and space administration huntsville, alabama 35812 **department of aerospace & ocean engineering virginia ...** - the distributed spacecraft attitude control system simulator: development, progress, plans jana l. schwartz and christopher d. hall department of aerospace & ocean engineering virginia polytechnic institute & state university abstract virginia tech has developed a testbed comprised of two independent spherical air-bearing platforms for **spacecraft attitude control design with adaptive bounded ...** - spacecraft attitude control design with adaptive bounded controllers sean shan-min swei this paper presents the development of a control system design to keep the spacecraft attitude at a prescribed sun vector. a bounded controller is proposed which utilizes the measured sun vector and spacecraft spin rates, and the control gains are model indepen- **cassini attitude control flight software: from development ...** - attitude control sensors and actuators, it is the software that becomes the glue to control and monitor the entire spacecraft. in particular it is the attitude and articulation control subsystem (aacs) flight software (fsw) which is the scope of this paper. figure 1. the cassini spacecraft. **fault-tolerant spacecraft magnetic attitude control** - this work is concerned with the development of an approximate jump-linear quadratic controller with partial mode information and its application to spacecraft attitude control. this work briefly reviews the general jump-linear quadratic controller under full state and mode information. re- **design and prototyping of a low-cost spacecraft attitude ...** - power to be representative of a spacecraft with a limited power budget. the final product of our work is a 6-inch cube that contains the attitude determination and control system of a typical 3-axis stabilized spacecraft. three 1-d (one degree of freedom) prototypes are mounted orthogonally to provide 3-axis control. **acquisition, tracking, and pointing technology development ...** - in this paper, development of the experimental brms test-bed is first presented. advancements in attitude control of the spacecraft are also addressed including large slew maneuvers for target acquisition and adaptive attitude control for fine tracking and pointing with a cmg array. **attitude determination and control (adcs)** - 16.684 space systems product development spring 2001. adcs motivation motivation " in order to point and slew optical systems, spacecraft attitude control provides coarse pointing while optics control provides fine pointing spacecraft control **spacecraft attitude control using control moment gyro ...** - and control the attitude of a vehicle. spacecraft attitude changes according to the fundamental equations of motion for rotational dynamics, the euler equations. attitude determination is the process of combining available sensor inputs with knowledge of the spacecraft dynamics to provide an accurate and unique solution for the **implementing a linear quadratic spacecraft attitude ...** - this attitude control strategy uses the thrust-acceleration input obtained from a linear quadratic optimal trajectory control model that simulates the trajectory of a spacecraft in orbit maneuvers. this attitude model simulates a cubesat, a small satellite that is equipped with a low-thrust propulsion and attitude control system. **pulsed plasma thrusters for small spacecraft attitude control** - pulsed plasma thrusters for small spacecraft attitude control melissa l. mcguire analex corporation ... national aeronautics and space administration. pulsed plasma thrusters for small spacecraft attitude control melissa l. mcguire analex corporation nasa lewis research center ... contracted flight ppt system development program in place with ... **coordinated attitude control of a formation of spacecraft** - spacecraft formations offer more powerful and robust space system architectures than single spacecraft systems. investigations into the dynamics and control of spacecraft formations are vital for the development and design of future successful space missions. the problem of controlling the attitude of a formation of spacecraft is investigated. **analysis of spacecraft attitude control - lehigh preserve** - the attitude tracking control is a kind of concept that as individual spacecraft control data collection, a target is selected, and the ship rigged so that the image sensor could track the place in the aim.

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