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The flexible dynamic model was developed using finite element method, and a novel learning-based fuzzy control method was proposed to effectively reduce the vibrations. Daley proposed an extended self-organizing fuzzy logic controller for the attitude

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The flexible solar array was discreted using assumed mode method.

~~Dynamics modeling and attitude control of spacecraft ...~~

Attitude control of rigid-flexible multi-body systems by active stabilizers is

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studied in this paper. During slewing maneuvers, flexible members like solar panels may be excited to vibrate. These vibrations, in turn, produce oscillatory disturbing forces on other subsystems and consequently produce error in the spacecraft motion.

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The attitude of a body is its orientation as perceived in a certain frame of reference; providing a vector along which a spacecraft is pointing is a description of its attitude.. Dynamics is the term for the modeling of changing

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conditions, due to external forces acting on the body.. Control is the purposeful, designed manipulation of those external forces to determine the craft's attitude.

~~Attitude dynamics and control~~

The fine dynamics modeling and multi-



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stage attitude control is the two problems that have to be solved for space telescope ultrahigh precision attitude control. Motivated by this, a fine dynamics model considering the nonlinearity of attitude dynamics is established by the finite element constraint method and the multi-stage

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integrated attitude control strategy is developed in the paper.

~~Dynamic modeling and multi-stage integrated control method ...~~

Detailed dynamic modeling and attitude control design for a sail- craft employing a two-axis gimbaled control

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boom, control vanes, or  
translating/tilting sail panels are  
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because it is useful for modeling In the  
beginning, there was no math, so we

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used mechanical devices for our models {Gears (Anaximander) {Then ...

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We have a research on the principle of motion and the design of attitude

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stabilizing controller. Firstly, the dynamics model of the twin rotor aircraft is established. Then the prototype is designed and built to obtain the relevant physical parameters. Finally, the real flight attitude tracking curve was measured by flight experiment which verifies the

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correctness and effectiveness of the proposed PID attitude controller of the Bi-copter.

~~Modeling and attitude control of Bi-copter - IEEE ...~~

- Attitude is determined using sensors
- To do the control function requires

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knowledge of kinetics and kinematics  
(dynamics) □ Attitude is controlled  
using actuators □ So, the spacecraft  
needs an Attitude Determination and  
Control System (ADCS) □ To do the  
determination function requires  
knowledge of kinematics



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## Introduction to Attitude Dynamics and Control

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Modelling and attitude control design using a quaternion description of attitude for a rigid body in space. Dynamics and kinematics of a satellite is formulated as a non-linear model from Euler's moment equations and a description of kinematics using the attitude quaternion to represent

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~~Satellite Dynamics and Control in a  
Quaternion Formulation ...~~

Attitude control is the process of  
controlling the orientation of an  
aerospace vehicle with respect to an  
inertial frame of reference or another

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entity such as the celestial sphere, certain fields, and nearby objects, etc. Controlling vehicle attitude requires sensors to measure vehicle orientation, actuators to apply the torques needed to orient the vehicle to a desired attitude, and algorithms to command the actuators based on

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~~Attitude control - Wikipedia~~

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an Attitude Control System for a  
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Dynamics. The presence of propellant  
slosh dynamics in a spacecraft system  
during a maneuver leads to attitude  
control system (ACS) performance



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degradation resulting in attitude tracking errors and instability. As spacecraft missions become more complex and

~~Design of an Attitude Control System  
for a Spacecraft with ...~~

Attitude actuators There are two

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classes of actuator system: □ Active controllers □ to actively control the system means to use a propulsion system to re-point the spacecraft:  
□ Thrusters □ Magnetic Torque  
□ Momentum Wheels □ Control Moment Gyros □ Passive controllers □ use mechanisms that exploit the orbit

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