

Dynamics modeling and attitude control of a flexible space system with active stabilizers

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Abstract Attitude control of rigid-flexible multi-body systems by active stabilizers is 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. Also, to develop a proper model-based controller for such complicated system, the system dynamic model is derived. However, due to practical limitations and real-time control implementation, the system dynamic model should be structured such that low computations burden will be imposed on the model-based controller. In this paper, in contrast to many accumulating dynamic modeling approach, a precise compact dynamic model for an active stabilized spacecraft (ASS) system with flexible members is derived. Toward this goal, the total system is virtually partitioned into two rigid and flexible portions. Moreover, the obtained model of these complicated systems

is vigorously verified using ANSYS and ADAMS programs. Finally, based on the derived dynamics and a proper virtual damping parameter, an attitude control algorithm is then developed. The suggested controller structure takes the advantage of utilizing the piezoelectric smart materials to dissipate the vibration of solar panels. The obtained results reveal the merits and effectiveness of the proposed suggested modeling and control methods for reliable attitude maneuvering of the system. In addition, it will be shown that the undesired vibrations of the flexible solar panels result in disturbing forces on the ASS system which can be significantly eliminated by the proposed attitude control algorithm.

Keywords Rigid-flexible multi-body systems · Reaction wheel · Piezoelectric patch · Attitude control

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List of symbols

B_f	Virtual damping matrix of flexible member
C	Vector of quadratic nonlinear terms of velocity
H	Positive definition mass matrix of system
J_c	Jacobian matrix for the spacecraft
J_f	Jacobian matrix of the floating frame of each flexible body
K	Stiffness matrix of flexible member
K_p, \tilde{K}_d	Gain matrix of controller for system in task space
K_{PZ}	Capacitances of the piezoelectric patches

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Table of Contents Dynamics Modeling And Attitude Control Of A Flexible Space

1. Understanding the eBook Dynamics Modeling And Attitude Control Of A Flexible Space
 - The Rise of Digital Reading Dynamics Modeling And Attitude Control Of A Flexible Space
 - Advantages of eBooks Over Traditional Books
2. Identifying Dynamics Modeling And Attitude Control Of A Flexible Space
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Dynamics Modeling And Attitude Control Of A Flexible Space
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dynamics Modeling And Attitude Control Of A Flexible Space
 - Personalized Recommendations
 - Dynamics Modeling And Attitude Control Of A Flexible Space User Reviews and Ratings
 - Dynamics Modeling And Attitude Control Of A Flexible Space and Bestseller Lists
5. Accessing Dynamics Modeling And Attitude Control Of A Flexible Space Free and Paid eBooks
 - Dynamics Modeling And Attitude Control Of A Flexible Space Public Domain eBooks
 - Dynamics Modeling And Attitude Control Of A Flexible Space eBook Subscription Services
 - Dynamics Modeling And Attitude Control Of A Flexible Space Budget-Friendly Options
6. Navigating Dynamics Modeling And Attitude Control Of A Flexible Space eBook Formats
 - ePub, PDF, MOBI, and More
 - Dynamics Modeling And Attitude Control Of A Flexible Space Compatibility with Devices
 - Dynamics Modeling And Attitude Control Of A Flexible Space Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dynamics Modeling And Attitude Control Of A Flexible Space
 - Highlighting and Note-Taking Dynamics Modeling And Attitude Control Of A Flexible Space
 - Interactive Elements Dynamics Modeling And Attitude Control Of A Flexible Space
8. Staying Engaged with Dynamics Modeling And Attitude Control Of A Flexible Space

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dynamics Modeling And Attitude Control Of A Flexible Space
9. Balancing eBooks and Physical Books Dynamics Modeling And Attitude Control Of A Flexible Space
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dynamics Modeling And Attitude Control Of A Flexible Space
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Dynamics Modeling And Attitude Control Of A Flexible Space
- Setting Reading Goals Dynamics Modeling And Attitude Control Of A Flexible Space
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Dynamics Modeling And Attitude Control Of A Flexible Space
- Fact-Checking eBook Content of Dynamics Modeling And Attitude Control Of A Flexible Space
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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