

YAGUANG YANG

SPACECRAFT MODELING, ATTITUDE DETERMINATION, AND CONTROL

Quaternion-Based Approach



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A SCIENCE PUBLISHERS BOOK

Spacecraft Attitude Determination And Control

Michael Paluszek



Spacecraft Attitude Determination And Control:

Spacecraft Attitude Determination and Control James R. Wertz, 1978-12-31 Roger D Werking Head Attitude Determination and Control Section National Aeronautics and Space Administration Goddard Space Flight Center Extensive work has been done for many years in the areas of attitude determination attitude prediction and attitude control During this time it has been difficult to obtain reference material that provided a comprehensive overview of attitude support activities This lack of reference material has made it difficult for those not intimately involved in attitude functions to become acquainted with the ideas and activities which are essential to understanding the various aspects of spacecraft attitude support As a result I felt the need for a document which could be used by a variety of persons to obtain an understanding of the work which has been done in support of spacecraft attitude objectives It is believed that this book prepared by the Computer Sciences Corporation under the able direction of Dr James Wertz provides this type of reference This book can serve as a reference for individuals involved in mission planning attitude determination and attitude dynamics an introductory textbook for students and professionals starting in this field an information source for experimenters or others involved in spacecraft related work who need information on spacecraft orientation and how it is determined but who have neither the time nor the resources to pursue the varied literature on this subject and a tool for encouraging those who could expand this discipline to do so because much remains to be done to satisfy future needs [Fundamentals of Spacecraft Attitude Determination and Control](#) F. Landis Markley, John L. Crassidis, 2014-05-31 This book explores topics that are central to the field of spacecraft attitude determination and control The authors provide rigorous theoretical derivations of significant algorithms accompanied by a generous amount of qualitative discussions of the subject matter The book documents the development of the important concepts and methods in a manner accessible to practicing engineers graduate level engineering students and applied mathematicians It includes detailed examples from actual mission designs to help ease the transition from theory to practice and also provides prototype algorithms that are readily available on the author's website Subject matter includes both theoretical derivations and practical implementation of spacecraft attitude determination and control systems It provides detailed derivations for attitude kinematics and dynamics and provides detailed description of the most widely used attitude parameterization the quaternion This title also provides a thorough treatise of attitude dynamics including Jacobian elliptical functions It is the first known book to provide detailed derivations and explanations of state attitude determination and gives readers real world examples from actual working spacecraft missions The subject matter is chosen to fill the void of existing textbooks and treatises especially in state and dynamics attitude determination MATLAB code of all examples will be provided through an external website **Spacecraft Attitude Determination and Control** James R. Wertz, 1980 **Spacecraft Attitude Determination and Control** James Richard Wertz, 1978 *ADCS - Spacecraft Attitude Determination and Control* Michael Paluszec, 2023-04-27 ADCS Spacecraft

Attitude Determination and Control provides a complete introduction to spacecraft control. The book covers all elements of attitude control system design including kinematics, dynamics, orbits, disturbances, actuators, sensors, and mission operations. Essential hardware details are provided for star cameras, reaction wheels, sun sensors, and other key components. The book explores how to design a control system for a spacecraft, control theory, and actuator and sensor details. Examples are drawn from the author's 40 years of industrial experience with spacecraft such as GGS, GPS, IIR, Mars Observer, and commercial communications satellites, and includes historical background and real-life examples. Features critical details on hardware and the space environment. Combines theory and ready-to-implement practical algorithms. Includes MATLAB code for all examples. Provides plots and figures generated with the included code.

Spacecraft Attitude Determination and Control Computer Sciences Corporation. Attitude Systems Operation, 1978

Spacecraft Modeling, Attitude Determination, and Control Yaguang Yang, 2019-02-06 This book discusses all spacecraft attitude control related topics: spacecraft including attitude measurements, actuator, and disturbance torques; modeling spacecraft attitude determination and estimation; and spacecraft attitude controls. Unlike other books addressing these topics, this book focuses on quaternion-based methods because of its many merits. The book lays a brief but necessary background on rotation sequence representations and frequently used reference frames that form the foundation of spacecraft attitude description. It then discusses the fundamentals of attitude determination using vector measurements, various efficient methods including very recently developed attitude determination algorithms, and the instruments and methods of popular vector measurements. With available attitude measurements, attitude control designs for inertial point and nadir pointing are presented in terms of required torques, which are independent of actuators in use. Given the required control torques, some actuators are not able to generate the accurate control torques; therefore, spacecraft attitude control design methods with achievable torques for these actuators, for example, magnetic torque bars and control moment gyros, are provided. Some rigorous controllability results are provided. The book also includes attitude control in some special maneuvers such as orbital raising, docking, and rendezvous that are normally not discussed in similar books. Almost all design methods are based on state-space modern control approaches such as linear quadratic optimal control, robust pole assignment control, model predictive control, and gain scheduling control. Applications of these methods to spacecraft attitude control problems are provided. Appendices are provided for readers who are not familiar with these topics.

Spacecraft Modeling, Attitude Determination, and Control Yaguang Yang, 2025-06-25 This book discusses spacecraft attitude control related topics: spacecraft modeling, spacecraft attitude determination and estimation, and spacecraft attitude controls. Unlike other books addressing these topics, this book focuses on quaternion-based methods because of their many merits. It provides a brief but necessary background on rotation sequence representations and frequently used reference frames that form the foundation of spacecraft attitude description. It then discusses the fundamentals of attitude determination using vector measurements, various efficient methods including very

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Spacecraft Attitude Control Program Murlidhar Rajagopalan, 1996. *Attitude Control Subsystem for the Advanced Communications Technology Satellite* Alan W. Hewston, 1996. A Novel Magnetic Field Approach to Simulate Spacecraft Attitude Determination and Control, 2014.

Spacecraft Dynamics and Control Marcel J. Sidi, 1997. Satellites are used increasingly in telecommunications, scientific research, surveillance and meteorology and these satellites rely heavily on the effectiveness of complex onboard control systems. This book explains the basic theory of spacecraft dynamics and control and the practical aspects of controlling a satellite. The emphasis throughout is on analyzing and solving real world engineering problems. For example, the author discusses orbital and rotational dynamics of spacecraft under a variety of environmental conditions along with the realistic

constraints imposed by available hardware *Spacecraft Dynamics and Control* Marcel J. Sidi, 2000-07-03 Satellites are used increasingly in telecommunications scientific research surveillance and meteorology and these satellites rely heavily on the effectiveness of complex onboard control systems This 1997 book explains the basic theory of spacecraft dynamics and control and the practical aspects of controlling a satellite The emphasis throughout is on analyzing and solving real world engineering problems For example the author discusses orbital and rotational dynamics of spacecraft under a variety of environmental conditions along with the realistic constraints imposed by available hardware Among the topics covered are orbital dynamics attitude dynamics gravity gradient stabilization single and dual spin stabilization attitude maneuvers attitude stabilization and structural dynamics and liquid sloshing **Spacecraft Modeling, Attitude Determination, and Control** Yaguang Yang, 2025-06-25 This book discusses spacecraft attitude control related topics spacecraft modeling spacecraft attitude determination and estimation and spacecraft attitude controls Unlike other books addressing these topics this book focuses on quaternion based methods because of their many merits It provides a brief but necessary background on rotation sequence representations and frequently used reference frames that form the foundation of spacecraft attitude description It then discusses the fundamentals of attitude determination using vector measurements various efficient including very recently developed attitude determination algorithms and the instruments and methods of popular vector measurements With available attitude measurements attitude control designs for inertial point and nadir pointing are presented in terms of required torques which are independent of actuators in use Given the required control torques some actuators are not able to generate the accurate control torques therefore spacecraft attitude control design methods with achievable torques for these actuators for example magnetic torque bars and control moment gyros are provided Some rigorous controllability results are provided The book also includes attitude control in some special maneuvers and systems such as orbital raising docking and rendezvous and multi body space systems that are normally not discussed in similar books All design methods are based on state spaced modern control approaches such as linear quadratic optimal control robust pole assignment control model predictive control and gain scheduling control Applications of these methods to spacecraft attitude control problems are provided Appendices are provided for readers who are not familiar with these topics

Modular, Miniature, Reconfigurable Spacecraft Attitude Determination and Control Subsystem with Standard Interfaces, 2002 Attitude Determination and Control Hardware Development for Small Satellites Marc Fournier, 2011 The development of a small spacecraft attitude determination and control subsystem is described This subsystem is part of The Space Flight Laboratory's Generic Nanosatellite Bus With a 20cm³ body the bus has an attitude determination and control subsystem capable of full three axis stabilization and control enabling more advanced missions previously only possible with bulkier and more power consuming attitude control hardware Specific contributions to the Space Flight Lab's attitude control hardware are emphasised Particularly the full development of a 32g three axis nanosatellite rate sensing unit is

described This includes embedded software development skew calibration hardware modeling and qualification testing for the unit Development work on a three axis boom mounted magnetometer is also detailed A full hardware design is also described for a new microsatellite sized rate sensor Larger and more powerful than the nanosatellite rate sensors the design ensures a low noise low drift architecture to improve attitude determination on future microsatellite missions Modern Spacecraft Dynamics and Control Marshall H. Kaplan, 2020-11-18 Topics include orbital and attitude maneuvers orbit establishment and orbit transfer plane rotation interplanetary transfer and hyperbolic passage lunar transfer reorientation with constant momentum attitude determination more Answers to selected exercises 1976 edition **Literature 1979,** **Part 1** Siegfried Böhme, Ute Esser, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-04-18 *Advances in Spacecraft Attitude Control* Timothy Sands, 2020-01-15 Spacecraft attitude maneuvers comply with Euler's moment equations a set of three nonlinear coupled differential equations Nonlinearities complicate the mathematical treatment of the seemingly simple action of rotating and these complications lead to a robust lineage of research This book is meant for basic scientifically inclined readers and commences with a chapter on the basics of spaceflight and leverages this remediation to reveal very advanced topics to new spaceflight enthusiasts The topics learned from reading this text will prepare students and faculties to investigate interesting spaceflight problems in an era where cube satellites have made such investigations attainable by even small universities It is the fondest hope of the editor and authors that readers enjoy this book

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