

Space Technology Library

F. Landis Markley  
John L. Crassidis

# Fundamentals of Spacecraft Attitude Determination and Control



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# Fundamentals Of Spacecraft Attitude Determination And Control Space Technology Library

**Yaguang Yang**



## **Fundamentals Of Spacecraft Attitude Determination And Control Space Technology Library:**

**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.

**Modern Spacecraft Guidance, Navigation, and Control** Vincenzo Pesce, Andrea Colagrossi, Stefano Silvestrini, 2022-11-13

Modern Spacecraft Guidance, Navigation and Control: From System Modeling to AI and Innovative Applications provides a comprehensive foundation of theory and applications of spacecraft GNC from fundamentals to advanced concepts, including modern AI-based architectures with focus on hardware and software practical applications. Divided into four parts, this book begins with an introduction to spacecraft GNC before discussing the basic tools for GNC applications. These include an overview of the main reference systems and planetary models, a description of the space environment, an introduction to orbital and attitude dynamics, and a survey on spacecraft sensors and actuators with details of their modeling principles. Part 2 covers guidance, navigation, and control, including both on-board and ground-based methods. It also discusses classical and novel control techniques, failure detection, isolation, and recovery, FDIR methodologies, GNC verification, validation, and on-board implementation. The final part, 3, discusses AI and modern applications featuring different applicative scenarios with particular attention on artificial intelligence and the possible benefits when applied to spacecraft GNC. In this part, GNC for small satellites and CubeSats is also discussed. Modern Spacecraft Guidance, Navigation and Control: From System Modeling to AI and Innovative Applications is a valuable resource for aerospace engineers, GNC/AOCS engineers, avionics developers, and AIV/AIT technicians. Provides an overview of classical and modern GNC techniques covering practical system modeling aspects and applicative cases. Presents the most important artificial intelligence algorithms applied to present and future spacecraft GNC. Describes classical and advanced techniques for GNC hardware and software verification and validation, and

GNC failure detection isolation and recovery FDIR      Hamiltonian Perturbation Solutions for Spacecraft Orbit Prediction  
 Martín Lara, 2021-05-10 Analytical solutions to the orbital motion of celestial objects have been nowadays mostly replaced by numerical solutions but they are still irreplaceable whenever speed is to be preferred to accuracy or to simplify a dynamical model In this book the most common orbital perturbations problems are discussed according to the Lie transforms method which is the de facto standard in analytical orbital motion calculations Due to an oversight an error slipped in Section 4.1 of the book where it is implicitly assumed the case of the Kepler problem The following text should replace Sections 4.1 and 4.2 of the book Cross references may be affected with the new writing In particular former crossed references to Eq 4.3 should now point to current Eq 4.12 Please find the Erratum below      *Advances in Precision Instruments and Optical Engineering*  
 Guixiong Liu, Fengjie Cen, 2022-04-21 This book highlights the new technologies and applications presented at the 2021 International Conference on Precision Instruments and Optical Engineering held in Chengdu China from 25 to 27 August 2021 The conference aimed to provide a platform for researchers and professionals to share research findings discuss cutting edge technologies promote collaborations and fuel the industrial transition of new technologies The invited and contributed papers covered recent developments in optoelectronic devices nanophotonic research optoelectronic materials precision instruments intelligent instruments laser technology optical spectroscopy and other optical engineering topics The book is intended for researchers engineers and advanced students interested in precision instruments and optical engineering and their applications in diverse fields      **Low Earth Orbit Satellite Design** George Sebestyen, Steve Fujikawa, Nicholas Galassi, Alex Chuchra, 2018-02-06 In recent decades the number of satellites being built and launched into Earth's orbit has grown immensely alongside the field of space engineering itself This book offers an in depth guide to engineers and professionals seeking to understand the technologies behind Low Earth Orbit satellites With access to special spreadsheets that provide the key equations and relationships needed for mastering spacecraft design this book gives the growing crop of space engineers and professionals the tools and resources they need to prepare their own LEO satellite designs which is especially useful for designers of small satellites such as those launched by universities Each chapter breaks down the various mathematics and principles underlying current spacecraft software and hardware designs      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

*40th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 11-14, 2004, Fort Lauderdale, FL.: 04-3800 - 04-3849 ,2004* [AIAA 86-1550 - AIAA 86-1599](#) ,1986 *Journal of Guidance, Control, and Dynamics* ,2008 **Forthcoming Books** Rose Army,1998 **CAETE** ,2006 *Subject Guide to Books in Print* ,1993 [Whitaker's Books in Print](#) ,1998 [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

**Associations' Publications in Print** ,1981 1981 in 2 v v 1 Subject index v 2 Title index Publisher title index Association name index Acronym index Key to publishers and distributors abbreviations **Spacecraft Orbit and Attitude Systems** James R. Wertz,1999-01-01

*Spacecraft Attitude Determination and Control* James Richard Wertz,1978 *ADCS - Spacecraft Attitude Determination and Control* Michael Paluszek,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      *International Aerospace Abstracts* ,1997      **International Books in Print** ,1991

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Fundamentals Of Spacecraft Attitude Determination And Control Space Technology Library** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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