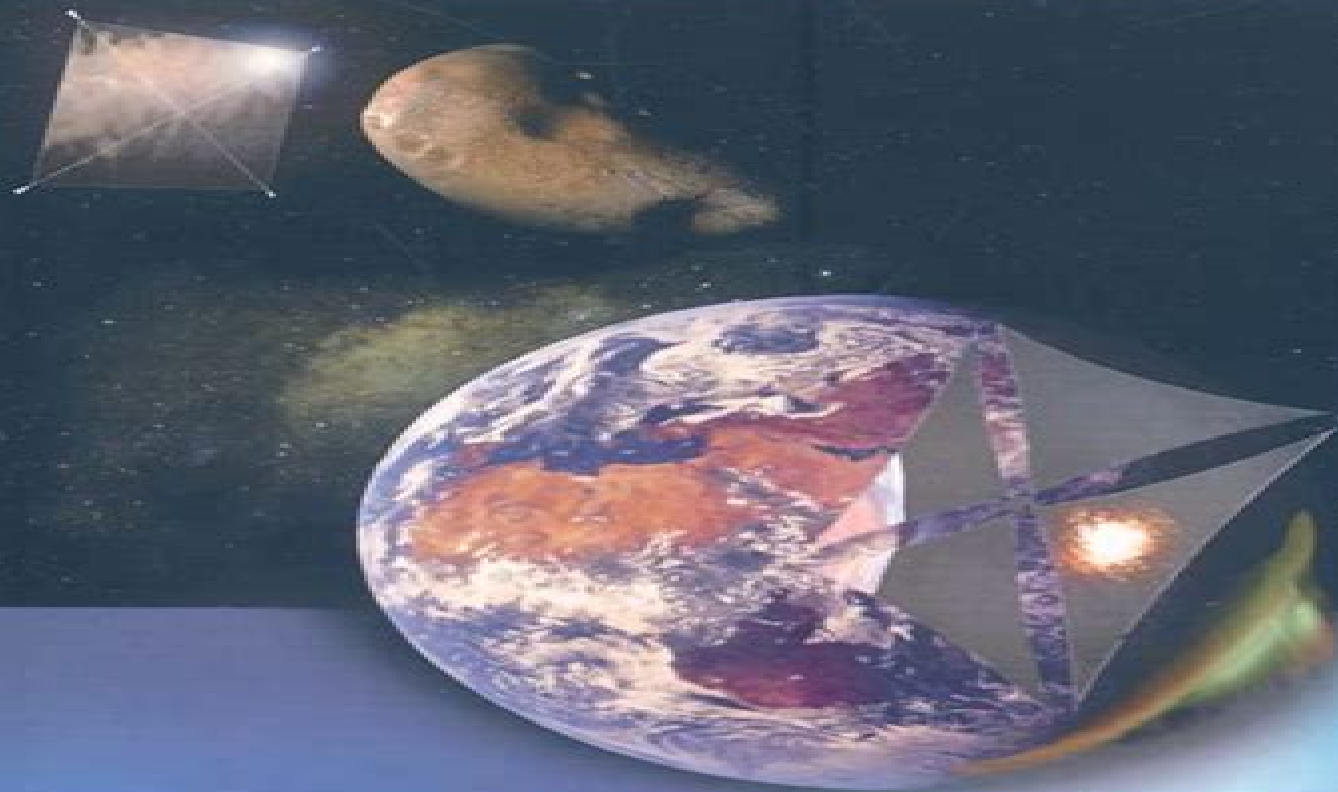


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Marcel J. Sidi



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Spacecraft Dynamics and Control Yongchun Xie,Yongjun Lei,Jianxin Guo,Bin Meng,2021-07-13 This book presents up to date concepts and design methods relating to space dynamics and control including spacecraft attitude control orbit control and guidance navigation and control GNC summarizing the research advances in control theory and methods and engineering practice from Beijing Institute of Control Engineering over the years The control schemes and systems based on these achievements have been successfully applied to remote sensing satellites communication satellites navigation satellites new technology test satellites Shenzhou manned spacecraft Tianzhou freight spacecraft Tiangong 1 2 space laboratories Chang e lunar explorers and many other missions Further the research serves as a guide for follow up engineering developments in manned lunar engineering deep space exploration and on orbit service missions

Spacecraft Dynamics and Control Enrico Canuto,Carlo Novara,Donato Carlucci,Carlos Perez-Montenegro,Luca Massotti,2018-03-08 Spacecraft Dynamics and Control The Embedded Model Control Approach provides a uniform and systematic way of approaching space engineering control problems from the standpoint of model based control using state space equations as the key paradigm for simulation design and implementation The book introduces the Embedded Model Control methodology for the design and implementation of attitude and orbit control systems The logic architecture is organized around the embedded model of the spacecraft and its surrounding environment The model is compelled to include disturbance dynamics as a repository of the uncertainty that the control law must reject to meet attitude and orbit requirements within the uncertainty class The source of the real time uncertainty estimation prediction is the model error signal as it encodes the residual discrepancies between spacecraft measurements and model output The embedded model and the uncertainty estimation feedback noise estimator in the book constitute the state predictor feeding the control law Asymptotic pole placement exploiting the asymptotes of closed loop

transfer functions is the way to design and tune feedback loops around the embedded model state predictor control law reference generator The design versus the uncertainty class is driven by analytic stability and performance inequalities The method is applied to several attitude and orbit control problems The book begins with an extensive introduction to attitude geometry and algebra and ends with the core themes state space dynamics and Embedded Model Control Fundamentals of orbit attitude and environment dynamics are treated giving emphasis to state space formulation disturbance dynamics state feedback and prediction closed loop stability Sensors and actuators are treated giving emphasis to their dynamics and modelling of measurement errors Numerical tables are included and their data employed for numerical simulations Orbit and attitude control problems of the European GOCE mission are the inspiration of numerical exercises and simulations The suite of the attitude control modes of a GOCE like mission is designed and simulated around the so called mission state predictor Solved and unsolved exercises are included within the text and not separated at the end of chapters for better understanding training and application Simulated results and their graphical plots are developed through MATLAB Simulink code

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 Dynamics and Control Anton H. de Ruiter, Christopher Damaren, James R. Forbes, 2012-12-05 Provides the basics of spacecraft orbital dynamics plus attitude dynamics and control using vectrix notation Spacecraft Dynamics and Control An Introduction presents the fundamentals of classical control in the context of spacecraft attitude control This approach is particularly beneficial for the training of students in both of the subjects of classical control as well as its application to spacecraft attitude control By using a physical system a spacecraft that the reader can visualize rather than arbitrary transfer functions it is easier to grasp the motivation for why topics in control theory are important as well as the theory behind them The entire treatment of both orbital and attitude dynamics makes use of vectrix notation which is a tool that allows the user to write down any vector equation of motion without consideration of a reference frame This is particularly suited to the treatment of multiple reference frames Vectrix notation also makes a very clear distinction between a physical vector and its coordinate representation in a reference frame This is very important in spacecraft dynamics and control problems where often multiple coordinate representations are used in different reference frames for the same physical vector Provides an accessible practical aid for teaching and self study with a layout enabling a

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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

Modeling and Simulation of Aerospace Vehicle

Dynamics Peter H. Zipfel, 2000 A textbook for an advanced undergraduate course in which Zipfel aerospace engineering U of Florida introduces the fundamentals of an approach to or step in design that has become a field in and of itself The first part assumes an introductory course in dynamics and the second some specialized knowledge in subsystem technologies Practicing engineers in the aerospace industry he suggests should be able to cover the material without a tutor Rather than include a disk he has made supplementary material available on the Internet Annotation copyrighted by Book News Inc Portland OR

Advances in Spacecraft Technologies Jason Hall, 2011-02-14 The development and launch of the first artificial satellite Sputnik more than five decades ago propelled both the scientific and engineering communities to new heights as they worked together to develop novel solutions to the challenges of spacecraft system design This symbiotic relationship has brought significant technological advances that have enabled the design of systems that can withstand the rigors of space while providing valuable space based services With its 26 chapters divided into three sections this book brings together critical contributions from renowned international researchers to provide an outstanding survey of recent advances in spacecraft technologies The first section includes nine chapters that focus on innovative hardware technologies while the next section is comprised of seven chapters that center on cutting edge state estimation techniques The final section contains eleven chapters that present a series of novel control methods for spacecraft orbit and attitude control

Control Applications of Vehicle Dynamics Jingsheng Yu, Vladimir Vantsevich, 2021-12-24 This book presents essential knowledge of car vehicle dynamics and control theory with NI LabVIEW software product application resulting in a practical yet highly technical guide for designing advanced vehicle dynamics and vehicle system controllers Presenting a clear overview of fundamental vehicle dynamics and vehicle system mathematical models the book covers linear and non linear design of model based controls such as wheel slip control vehicle speed control path following control vehicle stability and rollover control stabilization of vehicle trailer system Specific applications to autonomous vehicles are described among the methods It details the practical applications of Kalman Bucy filtering and the observer design for sensor signal estimation

alongside lateral vehicle dynamics and vehicle rollover dynamics The book also discusses high level controllers alongside a clear explanation of basic control principles for regenerative braking in both electric and hybrid vehicles and wheel torque vectoring systems Concrete LabVIEW simulation examples of how the models and controls are used in representative applications along with software algorithms and LabVIEW block diagrams are illustrated It will be of interest to engineering students automotive engineering students and automotive engineers and researchers

Dynamics and Control of Flexible Space Vehicles Peter W. Likins, 1970

Navigation and Tracking in Space: Analysis and Algorithms Sanat K. Biswas, 2023-12-31 This book focuses on the navigation and tracking of artificial space objects with emphasis on modelling the dynamics in a wide range of space missions including earth orbiting satellite missions launch and re entry missions as well as interplanetary missions The book guides you in designing suitable estimation algorithms for each type of mission It also helps you in addressing non linearity in designing navigation algorithms for space missions and walks you through the process for choosing estimators for navigation and tracking of space vehicles You ll find specific details on earth orbiting satellite tracking and navigation that helps you determine precise orbit and will understand how to get navigation and tracking results using the Least Square Estimation and the Extended Kalman Filter EKF for simulated observations You also learn how to address tracking performance of spacecraft in interplanetary trajectories that are affected by a diverse set of problems such low signal power intermittent observations observations at low rate and delays Techniques for designing navigation and tracking algorithms to address these problems are delineated The book also provides in depth coverage of multi object tracking relevant data association and estimation algorithms in the Situational Space Awareness context MATLAB Simulink based software is provided for simulation and simulated data set This is an excellent reference and practical tool for professionals in the field of Guidance Navigation and Control along with researchers and advanced students in the field of space vehicle navigation tracking guidance and control

NASA Technical Memorandum, 1978

Guidance, Navigation, and Control for Spacecraft Rendezvous and Docking: Theory and Methods Yongchun Xie, Changqing Chen, Tao Liu, Min Wang, 2021-02-16 This book focuses on the theory and design methods for guidance navigation and control GNC in the context of spacecraft rendezvous and docking RVD The position and attitude dynamics and kinematics equations for RVD are presented systematically in accordance with several different coordinate systems including elliptical orbital frame and recommendations are supplied on which of these equations to use in different phases of RVD The book subsequently explains the basic principles and relative navigation algorithms of RVD sensors such as GNSS radar and camera type RVD sensors It also provides guidance algorithms and schemes for different phases of RVD including the latest research advances in rapid RVD In turn the book presents a detailed introduction to intelligent adaptive control and proposes corresponding theoretical approaches to thruster configuration and control allocation for RVD Emphasis is placed on the design method of active and passive trajectory protection in different phases of RVD and on the safety design of the RVD mission as a whole For purposes

of verification the Shenzhou spacecraft s in orbit flight mission is introduced as well All issues addressed are described and explained from basic principles to detailed engineering methods and examples providing aerospace engineers and students both a basic understanding of and numerous practical engineering methods for GNC system design in RVD **Scientific and Technical Aerospace Reports** ,1992 The Shock and Vibration Digest ,1977 **Research and Technology Program Digest** United States. National Aeronautics and Space Administration,

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