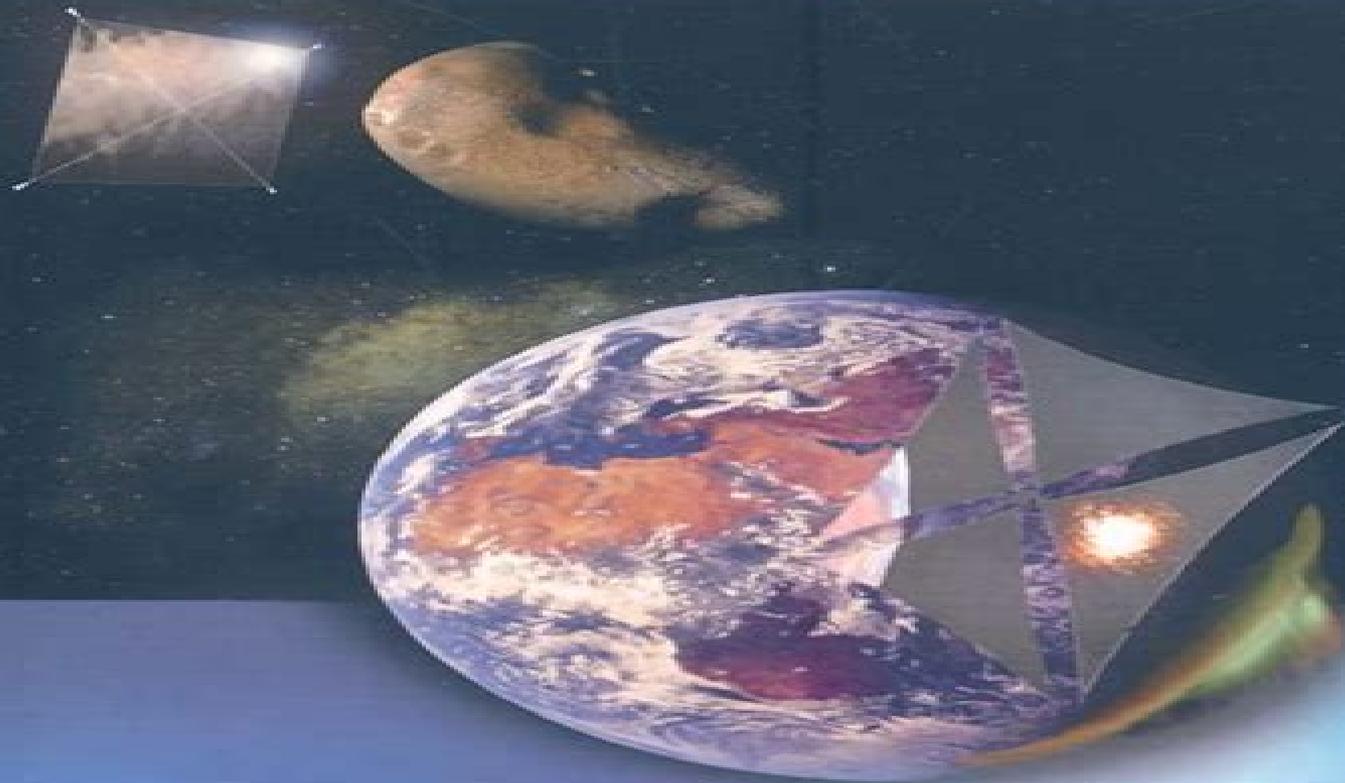


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Space Vehicle Dynamics

Marcel J. Sidi



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contain all new material specifically developed for this volume New Topics Include Spacecraft attitude determination and control Launch vehicle ascent flight control fundamentals of astrodynamics Orbital intercept rendezvous and terminal guidance Trajectory analysis and design for asteroid missions Planetary defense mission analysis and design Close proximity dynamics and control around asteroids Space Vehicle Guidance Control and Astrodynamics is intended for use as a textbook or a sustaining reference source for senior undergraduate or graduate courses With emphasis on practical applications it is also a valuable reference for practicing engineers and researchers Book jacket [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 vector 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 vector 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 Vector 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 fundamental understanding of the subject Fills a gap in the existing literature by providing an analytical toolbox offering the reader a lasting rigorous methodology for approaching vector mechanics a key element vital to new graduates and practicing engineers alike Delivers an outstanding resource for aerospace engineering students and all those involved in the technical aspects of design and engineering in the space sector Contains numerous illustrations to accompany the written text Problems are included to apply and extend the material in each chapter Essential reading for graduate level aerospace engineering students aerospace professionals researchers and engineers [Space Vehicle Maneuvering, Propulsion, Dynamics and Control](#) Ranjan Vepa, 2024-09-27 This textbook introduces space vehicle maneuvering propulsion dynamics and control and discusses the space environment and its influence on the spacecraft propulsion system This is followed by an in depth description of Keplerian celestial mechanics coplanar and non planar orbital transfers involving both impulsive and continuous manoeuvres and perturbation effects that characterize the real non Keplerian nature of orbital motion Dr Vepa then explains the use of restricted two body and three body dynamics as descriptors of spacecraft motion the limitations of these approach in terms of orbital perturbations and an understanding of the physical source and influence of these perturbations and principles of the optimal synthesis of

trajectories Featuring many exercises design case studies and extensive use of MATLAB SIMULINK and MATLAB analytical tools the book is ideal for graduate students post graduate students researchers as well professionals in the industry

Dynamics and Control of Flexible Space Vehicles Peter W. Likins,1970 **Flexible Spacecraft Dynamics, Control and Guidance** Leonardo Mazzini,2015-10-27 This book is an up to date compendium on spacecraft attitude and orbit control AOC that offers a systematic and complete treatment of the subject with the aim of imparting the theoretical and practical knowledge that is required by designers engineers and researchers After an introduction on the kinematics of the flexible and agile space vehicles the modern architecture and functions of an AOC system are described and the main AOC modes reviewed with possible design solutions and examples The dynamics of the flexible body in space are then considered using an original Lagrangian approach suitable for the control applications of large space flexible structures Subsequent chapters address optimal control theory attitude control methods and orbit control applications including the optimal orbital transfer with finite and infinite thrust The theory is integrated with a description of current propulsion systems with the focus especially on the new electric propulsion systems and state of the art sensors and actuators *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 *Space Vehicle Design* Michael Douglas Griffin,James R. French,2004 [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 *Orbital Dynamics of Space Vehicles* Ralph Deutsch,1963 **Analysis and Design of Space Vehicle Flight Control Systems. Volume X - Man in the Loop** ,1967 *Dynamic Stability of Space Vehicles: The effect of liftoff dynamics on launch vehicle stability and control*, by L. C. Engbreghof General Dynamics Corporation,1967 **Dynamic**

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