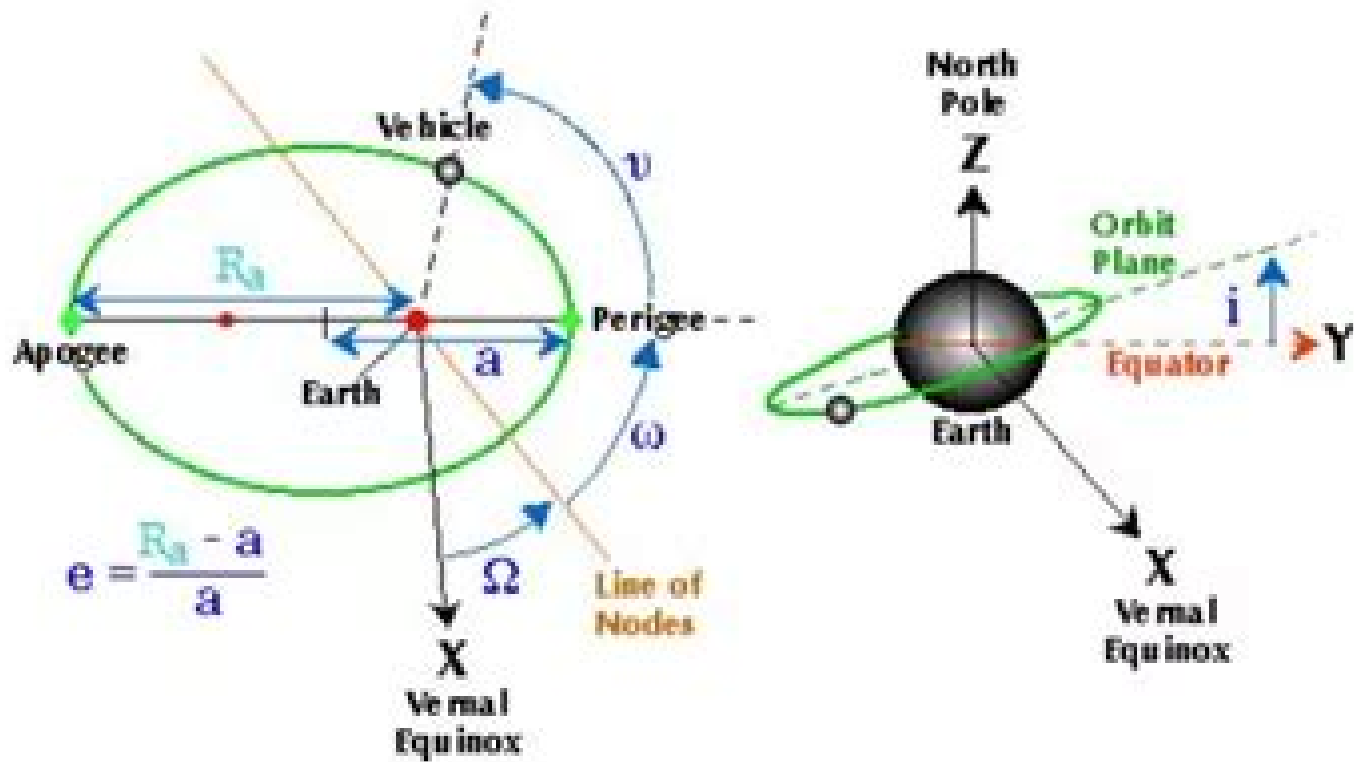




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this book provides practical information on the development analysis and control of a single and or multiple spacecraft in space This book is divided into two major sections single and multiple satellite motion The first section analyses the orbital mechanics orbital perturbations and attitude dynamics of a single satellite around the Earth Using the knowledge of a single satellite motion the translation of a group of satellites called formation flying or constellation is explained Formation flying has been one of the main research topics over the last few years and this book explains different control approaches to control the satellite attitude motion and or to maintain the constellation together The control schemes are explained in the discrete domain such that it can be easily implemented on the computer on board the satellite The key objective of this book is to show the reader the practical and the implementation process in the discrete domain Explains the orbital motion and principal perturbations affecting the satellite Uses the Ares V rocket as an example to explain the attitude motion of a space vehicle Presents the practical approach for different control actuators that can be used in a satellite

Regularization in Orbital Mechanics Javier Roa,2017-09-25 Regularized equations of motion can improve numerical integration for the propagation of orbits and simplify the treatment of mission design problems This monograph discusses standard techniques and recent research in the area While each scheme is derived analytically its accuracy is investigated numerically Algebraic and topological aspects of the formulations are studied as well as their application to practical scenarios such as spacecraft relative motion and new low thrust trajectories

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Orbital and Celestial Mechanics John P. Vinti,1998

Introduction to Orbital Mechanics Franz T. Geyling,Howard Robert Westerman,1971

Fundamental Spacecraft Dynamics and Control Weiduo Hu,2015-11-02 An extensive text reference includes around an asteroid a new and important topic Covers the most updated contents in spacecraft dynamics and control both in theory and

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Spacecraft Navigation and Guidance Maxwell Noton, 2012-12-06 The analysis and computational techniques associated with the navigation and guidance of spacecraft are now in a mature state of development However the documentation has remained dispersed throughout conference papers journals company and contract reports making it difficult to get a true comprehensive picture of the subject This text brings together the body of literature with suitable attention to the necessary underlying mathematics and computational techniques It covers in detail the necessary orbital mechanics orbit determination with emphasis on the SRIF algorithm gravity assist manoeuvres and guidance both ground based and autonomous Attention is paid to all phases of a space mission including launch and re entry and whether culminating in an earth satellite or a deep space mission to planets or primitive bodies Software associated with the text is available free to the reader by means of the Internet server of the publisher Spacecraft Navigation and Guidance is an invaluable aid for all those working within astronautics aeronautics and control engineering in general

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