Fundamentals of Dynamics and Control of Space Systems



Krishna Dev Kumar

Fundamentals Of Dynamics And Control Of Space Systems

Ying-Ying Zheng

Fundamentals Of Dynamics And Control Of Space Systems:

Solution Manual Krishna Kumar, 2012-02-29 This Solution Manual is prepared to accompany and supplement the author s text Fundamentals of Dynamics and Control of Space Systems by K D Kumar It contains detailed solutions for most Fundamentals of Dynamics and Control of Space Systems Krishna Kumar, 2012-02-29 This book problems in the textbook is an outcome of the lectures delivered by the author for engineering students at Kyushu University Japan Korea Advanced Institute of Science and Technology South Korea and Ryerson University Canada The text started when the author was at Kyushu University Japan The author has been doing research on the subject of Dynamics and Control of Space Systems for the last fifteen years During the course of research and teaching this subject the author realized that there is an earnest need of a text which may provide basic understanding of inherent complexity in modelling space systems including environmental forces and torgues This text fulfils this goal through a step by step approach that explains each concept in a simple way with mathematical details and simple notations This textbook is written for engineers and students pursuing study or research on the dynamics and control of space systems The author has used all contents of this textbook in a core course on Space Systems one semester four hours a week This text assumes that the reader is well acquainted with elementary calculus and linear algebra Enough care has been taken so that the reader may attempt different types of problems Each concept has been discussed with sufficient mathematical background supported by examples A complete set of problems has been added to the end of every chapter A Solution Manual accompanying this book provides a solution to most of the these exercise problems In addition a Laboratory Manual with this textbook provides the practical aspects of designing space systems with a focus on the construction of a Can sized satellite During the course of writing I have received several suggestions and comments from my colleagues and students I especially thank my students Aradhana Choudhuri Mike Alger Geoffrey McVittie Mike Tai Kamran Shahid Antonio Mauro and Tarunkumar Patel who have gone through previous drafts of this book and provided me with valuable suggestions Finally I express my sincere appreciation to my parents my wife Annu and children Diksha and Saurabh for their support and patience without which it would have been impossible to complete this book This textbook is dedicated to my parents and family for their inspiration and support In writing this textbook I have tried my best to provide the best relevant materials on the subject I encourage and welcome all comments and suggestions to make this book more relevant to the contents of your course or research study Please address your comments to kdkumar **Orbital Mechanics for Engineering Students** Howard D. Curtis, 2013-10-05 Written by Howard Curtis ryerson ca Professor of Aerospace Engineering at Embry Riddle University Orbital Mechanics for Engineering Students is a crucial text for students of aerospace engineering Now in its 3e the book has been brought up to date with new topics key terms homework exercises and fully worked examples Highly illustrated and fully supported with downloadable MATLAB algorithms for project and practical work this book provides all the tools needed to fully understand the subject New chapter

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