

Roger R. Bate • Donald D. Mueller • Jerry E. White

FUNDAMENTALS OF ASTRODYNAMICS



Fundamentals Of Astrodynamics

**Roger R. Bate, Donald D. Mueller, Jerry
E. White, William W. Saylor**



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Worcester Makemson, University of California, Los Angeles. Department of Astronomy, Aeronutronic Ford Corporation, United States. Air Force. Office of Scientific Research, 1959

An Overview of Orbital Mechanics & Astrodynamics Paul F.

Kisak, 2016-07-14 In this information age satellites are playing an increasingly important role in everything from communication and navigation to the military and weather The command and control of satellites is based on the work of Johannes Kepler 1571 1630 and the science that evolved from his fundamental theories The physics involved in the command and control of satellites is usually categorized as orbital mechanics Orbital mechanics is based on the desire to predict the path of a satellite in its orbit around the earth One of the first requirements is to develop a coordinate system that is easy to use and measure and defines the motion of body or satellite in its orbit After this is accomplished the propagation of the orbital path needs to be calculated There are numerous ways to do this A seminal work in this procedure is Fundamentals of Astrodynamics by Bate Mueller atmospheric drag solar radiation pressure and the precession of the earth about its axis also alter the theoretical orbit Relativistic effects play a role in the station keeping of the satellite as do all the above perturbations The next step in the command and control of the satellite involves the dynamics of space flight and the mechanics of maneuvering a body in orbit by means of thrust vectors calculating Δv requirements This book outlines the unclassified methods of calculating and controlling the orbits of satellites

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Spacecraft Dynamics and Control Enrico Canuto, Carlo Novara, Donato Carlucci, Carlos Perez-Montenegro, Luca Massotti, 2018-03-08

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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

Lunar Transfer Orbits Utilizing Solar Perturbations and Ballistic Capture Wolfgang Seefelder,2002

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 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

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ACS Without an Attitude Harold L. Hallock, Gary Welter, David G. Simpson, Christopher Rouff, 2017-05-03 This book de
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