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Modern Spacecraft Dynamics And Control

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Modern Spacecraft Dynamics and Control (Dover Books on ...

Modern Spacecraft Dynamics and Control. M. H. Kaplan. John Wiley & Sons, London. 1976. 415 pp. Illustrated. £15.85. - Volume 81 Issue 796 - D. G. Ewart

Modern Spacecraft Dynamics and Control. M. H. Kaplan. John ...

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Modern Spacecraft Dynamics And Control Kaplan

Modern spacecraft dynamics and control - NASA/ADS. The basic principles of physics underlying spacecraft dynamics and control are examined and aspects of fundamental spacecraft dynamics are investigated. Orbital and attitude maneuvers are considered, taking into account momentum precession and adjustment for a rigid spacecraft, orbit establishment, orbit transfer and adjust, plane rotation, interplanetary transfer and hyperbolic passage, lunar transfer, the relative motion of satellites in ...

Modern spacecraft dynamics and control - NASA/ADS

Practical aspects of spacecraft dynamics and control are discussed, included sensor and actuator operation, digital implementation of controllers, and the effects of unmodelled dynamics Numerous illustrations accompany the text, helping the reader to better understand the material

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Spacecraft Dynamics and Control covers three core topic areas: the description of the motion and rates of motion of rigid bodies (Kinematics), developing the equations of motion that prediction the movement of rigid bodies taking into account mass, torque, and inertia (Kinetics), and finally non-linear controls to program specific orientations and achieve precise aiming goals in three-dimensional space (Control).

Spacecraft Dynamics and Control | Coursera

Introduction to Spacecraft Dynamics Overview of Course Objectives Determining Orbital Elements I Know Kepler's Laws of motion, Frames of Reference (ECI, ECEF, etc.) I Given position and velocity, determine orbital elements. I Given orbital elements and time, determine position + velocity. Satellite Orbital Maneuvers I Identify Required Orbit.

Spacecraft Dynamics and Control

Modern Spacecraft Dynamics and Control. This highly regarded book provides a bridge that spans spacecraft maneuvering and control techniques with associated physical fundamentals. Beginning with an examination of the basic principles of physics underlying spacecraft dynamics and control, the text covers orbital and attitude maneuvers, orbit establishment and orbit transfer, plane rotation, interplanetary transfer and hyperbolic passage, lunar transfer, reorientation with constant momentum, ...

Modern Spacecraft Dynamics and Control : Marshall H ...

Spacecraft detumbling allows us to introduce the angular rate control by means of magnetic torquers and to exploit some theoretical tools from the literature. These tools are partly used in the last section, which is committed to the modeling and control of a spacecraft actuated by reaction wheels and magnetic torquers.

Spacecraft Dynamics and Control | ScienceDirect

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.

Spacecraft Dynamics and Control: An Introduction | Wiley

Additional Physical Format: Print version: Kaplan, Marshall H. Modern spacecraft dynamics & control. New York : Wiley, ©1976 (DLC) 76014859 (OCoLC)2317997

Modern spacecraft dynamics & control (eBook, 1976 ...

This addition to the spacecraft dynamics and control literature joins a fairly short list of texts that treat control of both orbit and attitude dynamics, including Bryson' s Control of Spacecraft and Aircraft(1994), Kaplan' s Modern Spacecraft Dynamics and Control(1976),and Wiesel'sSpace' ight Dynamics(1996).

JOURNAL OF ROCKETS Vol. 34, No. 6, November December 1997 ...

M. J. Sidi, Spacecraft Dynamics and Control, 1997, Cambridge. A “practical engineering approach” to both orbital and attitude dynamics and control.
W. T. Thomson, Introduction to Space Dynamics, 1986, Dover. An excellent and affordable introduction to a variety of topics in spacecraft dynamics.

Spacecraft Dynamics and Control - Virginia Tech

Modern Spacecraft Dynamics and Control [Marshall H. Kaplan, 1976] (softcover) 978-0471457039. Marshall H. Kaplan List Price: \$155.95. Our Price: \$105.00. You Save: \$50.95 (33 %) Quantity: Detailed Description 415 pgs, 1976, John Wiley & Sons ISBN 9780471457039. Kaplan develops concepts from the Newtonian rather than mathematical approach to ...

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, “ A Survey of Spacecraft Formation Flying Guidance and Control (Part II): Control,” Proceedings of the American Control Conference, Evanston, IL, June 2004, pp. 2976–2984. Google Scholar

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