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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 ...

Modern Spacecraft Dynamics and Control Marshall H Kaplan "synopsis" may belong to another edition of this title. About the Author : Marshall H. Kaplan received his MS in Aeronautics and Astronautics from MIT and his Ph.D. in Aeronautical and Astronautical Sciences from Stanford.

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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.

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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, attitude determination, and attitude adjustment requirements.

Modern Spacecraft Dynamics and Control : Marshall H ...

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

2 G. Avanzini Spacecraft Attitude Dynamics and Control $\sim v =$
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$(e_{1,1}x + e_{1,2}y + e_{1,3}z)E^1 + (e_{2,1}x + e_{2,2}y + e_{2,3}z)E^2 + (e_{3,1}x + e_{3,2}y + e_{3,3}z)E^3$ This means that the components of $\sim v_{in}$ in FI can be expressed as a function of those in FB as follows:
 $X = e_{1,1}x + e_{1,2}y + e_{1,3}z$
 $Y = e_{2,1}x + e_{2,2}y + e_{2,3}z$
 $Z = e_{3,1}x + e_{3,2}y + e_{3,3}z$ or, in compact matrix form, $v_I = LIBv_B$ where the transformation matrix LIB is given by

Spacecraft Attitude Dynamics and Control

Description : "Space Vehicle Dynamics and Control provides a solid foundation in dynamic modeling, analysis, and control of space vehicles. More than 200 figures, photographs, and tables are featured in detailed sections covering the fundamentals of controlling orbital, attitude, and structural motions of space vehicles.

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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 ...

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