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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.

9780471457039: Modern Spacecraft Dynamics and Control ...
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Spacecraft Dynamics and Control - Virginia Tech
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 −v = (e1,1x+e1,2y+e1,3z)E^1 + + (e2,1x+e2,2y+e2,3z)E^2 + + (e3,1x+e3,2y+e3,3z)E^3 This means that the components of −vin FI can be expressed as a function of those in FB as follows: X=e1,1x+e1,2y+e1,3z Y=e2,1x+e2,2y+e2,3z Z=e3,1x+e3,2y+e3,3z or, in compact matrix form, vI = LIBvB where the transformation matrix LIB is given by

Spacecraft Attitude Dynamics and Control
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