

On the formulation of equations of rotational motion for an N-body spacecraft

Aerospace Corporation - n

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Equations of motion

Angular momentumOn the formulation of equations of rotational

motion for an N-body spacecraft

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Notes: Bibliographical references: p.53.

This edition was published in 1969

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Multibody structural dynamics including translation between the bodies

Thrust applied in the direction of the satellite's motion creates an elliptical orbit with its highest point 180 degrees away from the firing point.

NASA Technical Reports Server (NTRS) 20080044854: Newton

In particular, we have chosen to express the DCM for the base-spacecraft in Euler angles roll angle ϕ , pitch angle θ , yaw angle ψ in the following 1-2-3 rotation sequence: Alternative Expression of Transformations Using the Unit Quaternion Instead of the DCM The use of DCM in developing the transformation matrices for the spacecraft-manipulator system is familiar and intuitive. The mass and inertia properties of the system are given in Table , whereas the properties of the kinematic chain are summarized in Table.

A Recursive Algorithm for Solving the Generalized Velocities From the Momenta of Flexible Multibody Systems

The parameters d_i , α_i , and c_i represent fixed geometric properties of the manipulator link.

CiteSeerX — Citation Query Quaternion Feedback for Spacecraft Large Angle Maneuvers,”

Each chapter includes a list of references. The description of the geometry of the spacecraft-manipulator system uses DH parameters, which allows complete generality.

Orbital mechanics

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