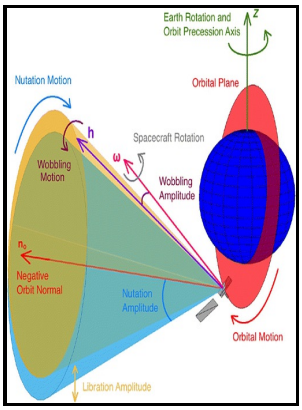
On the formulation of equations of rotational motion for an N-body spacecraft

Aerospace Corporation - High



Description: -
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Vibration
Laminar boundary layer
Shakespeare, William, -- 1564-1616.
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Angular momentumOn the formulation of equations of rotational motion for an N-body spacecraft
-On the formulation of equations of rotational motion for an N-body spacecraft
Notes: Bibliographical refrences: p.53.
This edition was published in 1969

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Toshiyoshi and Fujita 1996, Toshiyoshi et al. These gravitational attractive forces do conform to Newton's laws of motion and to his law of universal gravitation, but the many multiple n-body interactions have historically made any exact solution intractable.

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

Rigid-body attitude control is motivated by aerospace applications that involve attitude maneuvers or attitude stabilization.

Multibody structural dynamics including translation between the bodies

A popularization of the historical events and bickering between those parties, but more importantly about the results they produced.

Optimal Spacecraft Rotational Maneuvers

The methods presented are directly applicable in the analysis of biodynamic and human models, finite segment cable models, mechanisms, manipulators and robots. The Generalized Jacobian method formed the basis for the development of non-holonomic path planning algorithms ; , target capture algorithms , spacecraft-manipulator control strategies ; ; , hardware-in-the-loop simulation of space robotic systems , Reaction Null-Space Control algorithms and contact dynamics models. Next, one would consider only the Sun's gravity until the trajectory reaches the neighbourhood of Mars.

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