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Spacecraft flight dynamics is the application of mechanical dynamics to model how the external forces acting on a space vehicle or spacecraft determine its flight path. These forces are primarily of three types: propulsive force provided by the vehicle's engines; gravitational force exerted by the Earth and other celestial bodies; and aerodynamic lift and drag. The principles of flight dynamics are used to model a spacecraft's orbital flight; maneuvers to change orbit; translunar and interplanet

Flight dynamics (spacecraft) - Wikipedia

To me, "Spaceflight Dynamics" implies interplanetary and perhaps interstellar flight. However, only one (very weak) chapter on this, Ch 11. Here Wiesel, for instance, refers to the "Olberth" maneuvers only in a problem, misspells Dr. Hermann Oberth's name, and ignores the significance of his work. And this is a 2010 3rd edition? Shameful.

Spaceflight Dynamics: Third Edition: Amazon.co.uk: Wiesel ...

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Flight dynamics is the study of the performance, stability, and control of vehicles flying through the air or in outer space. It is concerned with how forces acting on the vehicle influence its speed and attitude with respect to time. For a fixed-wing aircraft, its changing orientation with respect to the local air flow is represented by two critical angles, the angle of attack of the wing and the angle of attack of the vertical tail, known as the sideslip angle. A sideslip angle will arise if a

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Spacecraft Dynamics and Control

MAE 589C Space Flight Mechanics a.k.a Astrodynamics August 24, 2005 9:42 pm 1 - 2 1.2 Coordinate Systems The first issue that must be addressed in any dynamics problem is to define the relevant coordinate systems. To specify the complete motion of a spacecraft, a coordinate system fixed in

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