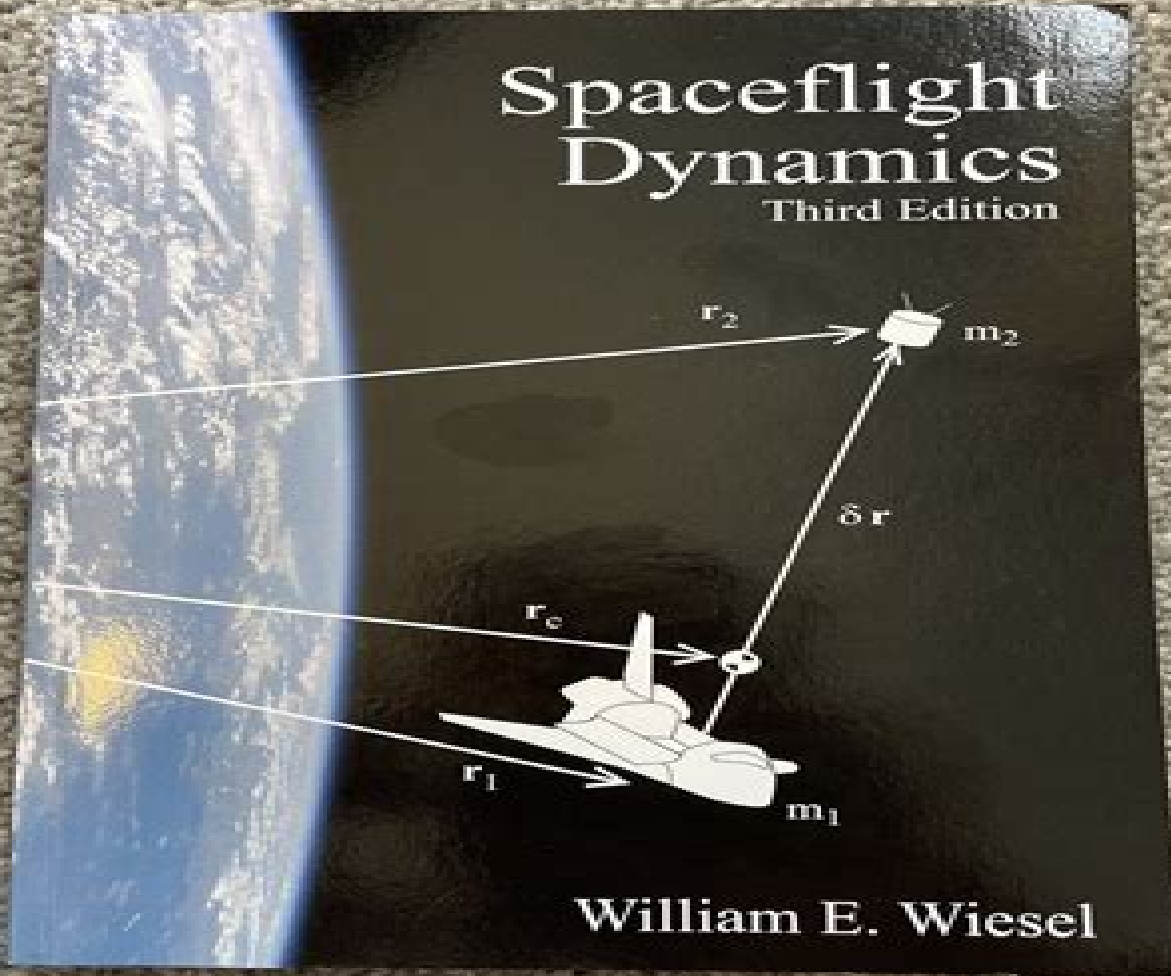


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Third Edition



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spacecraft using active and or passive methods of orientation and stabilization In addition a more advanced treatment of the development of attitude control systems is provided *Computational Space Flight Mechanics* Claus Weiland, 2010-06-29

The mechanics of space flight is an old discipline Its topic originally was the motion of planets moons and other celestial bodies in gravitational fields Kepler's 1571-1630 observations and measurements have led to probably the first mathematical description of planet's motion Newton 1642-1727 gave then with the development of his principles of mechanics the physical explanation of these motions Since then man has started in the second half of the 20th century to capture physically the Space in the sense that he did develop artificial celestial bodies which he brought into Earth's orbits like satellites or space stations or which he did send to planets or moons of our planetary system like probes or by which people were brought to the moon and back like capsules Further he developed an advanced space transportation system the U S Space Shuttle Orbiter which is the only winged space vehicle ever in operation In the last two and a half decades there were several activities in the world in order to succeed the U S Orbiter like the HERMES project in Europe the HOPE project in Japan the X-33 X-34 and X-37 studies and demonstrators in the United States and the joint U S European project X-38 However all these projects were cancelled The motion of these vehicles can be described by Newton's equation of motion

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