

Spaceflight Mechanics and Control

Spaceflight Mechanics and Control introduces readers to both classical theories and cutting-edge techniques used to simulate orbital and attitude motion. The theories discussed are connected to real world applications such as space debris removal, asteroid deflection and redirection, spacecraft solar sailing, and control of spacecraft manipulator systems. The book covers orbital trajectory specification and design and orbital maneuvers, including both impulsive and low thrust approaches and spacecraft formation flying. This valuable resource also includes access to a companion website hosting Python scripts, STK simulations, and more.

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