Poster Session (P) Poster Lunch (1)

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STUDY OF INFLUENCE OF CONTROL AND STOP CONTROL FOR SPACE STATION DURING TRANSFER

Abstract

According to control and stop control and consider the factors of space environment disturbance and transfer, build space station dynamic transfer model.Based Adams and Simulink co-simulation, calculate the attitude motion law of space station under the condition of control and stop control. Simulation results show that: Under the condition of space station control, angular moment of space station exceeds the envelop of attitude control actuator of space station, that don't meet the requirements of engineering design. Under the condition of space station stop control, simulation results don't effect on earth observation, though the peak value of attitude of space station is large. The conclusion is that stop control meets the requirements of engineering design.