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THERMAL CONTROL DESIGN OF CABIN TYPE FOR STAR SENSOR ON GEO SATELLITE

Abstract

To solve the problem that the thermal control design, which is commonly adopted at present for star sensor on GEO satellite, is complex and hard to implement, thermal control design of cabin type for star sensor is presented in this paper. The thermal control design of cabin type for star sensor has been applied on DFH-4 satellites. Results of thermal analysis and on orbit flight data shows that the temperature of star sensor with thermal control design of cabin type satisfies the temperature requirement very well, which means the cabin type method is reasonable.