

Poster Session (P)

Poster Lunch (1)

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DATA-BASED RESEARCH OF STAR SENSOR EFFICIENCY

Abstract

Star sensor is the most important attitude-measuring instrument of Space Laboratory. Star sensor provides high precision attitude, but is possibly disturbed by stray light which reduces the attitude measurement effect. On-orbit measurement data can be used to analyze the working regularity of star sensor, and give out analysis model. On the basis of task background, technical index, attitude measurement method and analyzing data, horizontal comparison and vertical prediction of star sensor's attitude measurement efficiency are presented. The feasibility is verified by on-orbit data.