

SPACE SYSTEMS SYMPOSIUM (D1)
Space Systems Architectures (4)

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THE INFLUENCE BROUGHT BY THE SPACE DATA SYSTEM TO THE SPACE TECHNIQUE

Abstract

space data system refers the telemetry, telecontrol, payload data time base data and so on. As the development of the space technique, the kinds of data is increasing, the volume for the data is exploding, the data rate varies a lot, much more requirements are in badly need for the space data technique. Traditional telemetry, telecontrol, data management systems fails to meet these requirements. The concept of the space data system is proposed under this circumstance. The space data system is an universal information system towards the multi-source, multi-user, open system model, it is a new standard system which is developed for future space mission. Package telemetry, package telecontrol are already employed in some space project. The concept of Advanced Orbit System (AOS) is under the process of development. These new technologies do not only bring tremendous changes to the scope and framework of the traditional telemetry, telecontrol and data management system, but also lay profound influence on the whole space technologies including spacecraft architecture, space-Earth communication method and so on. Much effort is made to help understand those influence brought by the space data system in this paper.