Research on Multi-disciplinary Integrated Design Method of Remote Sensing Satellites

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Abstract The improvement of mission capability of remote sensing satellites has made it more demanding for the in-depth, detailed, and intensive design. It is required that the ultimate goal of system performance should be carried out around the mission capability, which results in significant changes in product integration and verification pattern. This paper firstly introduces the concept and requirements of multi-disciplinary integrated design method, and then presents the key issues of the method in worldwide developments and applications. Finally, the practice in integrated collaborative analysis platform establishment is demonstrated, and the simulation verification is conducted and summarized.

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