Research on Multi-physical Modeling and Co-simulation of Aircraft



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Abstract Advanced aircraft system is more and more integrated, which makes the problem of multiple physical coupling between different physical systems more and more complex. Multi-physical modeling and co-simulation is a kind of important means for the early design study of multi-physical coupling, supporting systems integrated design and verification. Combined with the methodology of model-based system engineering, the key technologies of multi-physical system modeling and co-simulation are systematically analyzed, and the engineering application mode of multi-physical co-simulation for different stages of aircraft development is proposed.

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