

Advanced Technology of High Lift Control System

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High lift control has an important influence on the performance, safety and economy of aircraft, especially large aircraft. It is one of the most concerned aspects in the design of new aircraft, and also one of the hot topics for the future aircraft research. The purpose of this session is to bring together experts, scientists and engineers throughout the world to present and share new technology and new methods applied in the design and development of high lift control systems, discuss and exchange innovative ideas, architectures and recent research results on the future aircraft high lift systems. The topics of this paper include, but are not limited to: high lift control system design with light weight/minimum complexity, the application of MBSE in high lift control system design and development, fault diagnosis and health management of high lift control system, distributed high lift control system, adaptive wing design, control surface sharing, morphing high lift device design, active flow control method, airborne actuation system and related innovative applications and new trends of research.

高升力控制先进技术

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高升力控制对飞行器尤其是大型飞机的性能、安全性及经济性等方面有重要影响, 是飞机新型号设计中备受关注的环节之一, 也是未来飞机的重要研究热点之一。本专题旨在与世界范围内相关专家、学者、工程师们一道, 展示和分享高升力控制系统设计与开发中应用的新技术和新方法, 探讨和交流未来飞机高升力系统研究的新思路、新架构和新成果。本专题论文主题包含但不限于: 高升力控制系统的轻重量/低复杂性设计、MBSE 在高升力控制系统设计与开发中的应用、高升力控制系统故障诊断与健康管理和分布式高升力控制系统、机翼自适应、控制面共享、变体增升装置、主动流动控制、机载作动控制等相关方面的创新应用及研究新趋势。