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座舱蒙皮外表面气动加热的物理仿真研究

方贤德, 朱学欧

南京航空航天大学105 教研室, 南京, 210016

PHYSICAL SIMULATION OF AERODYNAMIC HEATING ON OUTSIDE SURFACES OF CABIN SKINS

Fang Xiande, Zhu Xueou

Department of Aircraft Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, 210016

摘要

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摘要 座舱蒙皮外表面气动加热的物理仿真是座舱热特性试验研究的重要基础。把平行射流理论应用于座舱蒙皮外表面气动加热的物理仿真, 提出了气动加热物理仿真的新方法。该方法能够满足座舱动态热特性物理仿真的需要, 且在人力、物力上较省。提出了用数学仿真控制座舱热特性试验的方法。这些方法已成功地应用于飞机座舱热载荷和热特性试验中。

关键词: 座舱 气动加热 热特性 热载荷 仿真 试验

Abstract: The physical simulation of aerodynamic heating on outside surfaces of cabin skins is an important basis of cabin thermal process tests. Parallel efflux theory has been used so that a new method of physical simulation of aerodynamic heating has been developed. It is economical and can meet the needs of cabin dynamic thermal characteristic simulation. A method using mathematical simulation to control the cabin thermal characteristic test has been worked out. These methods have been used in the actual airplane cabin thermal process and heat load tests successfully.

Keywords: cabins aerodynamic heating thermal characteristic heat load physical simulation test

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