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论文

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飞机座舱盖热疲劳试验台设计研究

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Study of the Design for Canopy Thermal Fatigue Test-Bed

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摘要

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摘要 建立了座舱盖热疲劳试验台试验段流动及换热计算模型,并通过与试验结果的对比及分析,验证了模型的正确性。基于大量数值计算结果及分析提出了座舱盖导流罩型面新的设计思想和设计方案,采用根据该方案修改的导流罩外形,解决了试验中座舱盖前后缘温差超标的问题。

关键词: 座舱盖 试验台 导流罩 载荷谱

Abstract: The flow and heat transfer numerical model for Canopy Thermal Fatigue Test-Bed is established. The simulating results agree with the experiment data well. Based on plenty of calculation results, a new scheme for the induce channel is presented. The application of the new shell makes the temperature difference between the top points in the front and the back of the Canopy within the request range.

Keywords: canopy test-bed induce channel temperature load-curve

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