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翼尖小翼飞行试验结果分析及其设计

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AN ANALYSIS OF FLIGHT TEST AND DESIGN CONSIDERATION

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摘要

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**摘要** 本文对翼尖小翼的飞行试验结果进行了分析,试图说明它对飞机的气动载荷、操稳特性及飞行性能的影响。此外还提出了在设计翼尖小翼时应着重考虑的问题。飞行试验的结果表明,翼尖小翼可将巡航时的升阻比提高5~11%[1],对侧向稳定性和副翼效率等性能无不利影响。将飞行试验结果与以升力面理论为基础的计算方法所得到的预测值进行了比较,大部分情况下有较好的一致性。

**关键词:**

**Abstract:** An analysis of flight test results was conducted to explain the effects of winglets on aerodynamic load, control-stability and performances. Also, some considerations of designing winglets were recommended. The results of flight test indicated that the increase in maximum lift-to-drag ratio in cruise was about 5-11%[1] without adverse effects on the lateral stability and aileron efficiency, etc. A comparison between flight tests and predicted values based on lifting-surface theory was made. Most of them were consistent.

**Keywords:**

Service

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