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## 三角翼过失速非定常洞壁干扰修正

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### UNSTEADY WALL CORRECTIONS FOR A DELTA WING OSCILLATING IN PITCH TO VERY HIGH ANGLES OF ATTACK

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摘要

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**摘要** 利用定常壁压洞壁干扰修正法算出的影响函数和洞壁最佳点测出的非定常壁压数值, 进行低速风洞三角翼过失速非定常洞壁干扰修正。研究表明, 非定常洞壁干扰修正有类似非定常空气动力的所谓滞迟环现象。非定常洞壁干扰修正量随频率增大开始增大, 以后随频率增大而减小, 呈现所谓“风洞谐振”趋势。在同样模型展长与风洞宽度之比条件下, 前缘后掠 $70^\circ$ 三角翼洞壁干扰修正量大于前缘后掠 $60^\circ$ 三角翼

**关键词:** 过失速 洞壁干扰 三角翼

**Abstract:** Unsteady tunnel wall corrections for a delta wing oscillating in pitch to very high angles of attack were presented, applying influence functions in steady wall pressure correction method and unsteady wall pressure at the optimum points. Results of this study showed that the unsteady wall corrections, just like unsteady aerodynamic load, produce hysteresis loops. The unsteady wall correction values were increasing with the reduced frequencies increase at the beginning, and then afterward on the contrary. For the same ratio of wing span to test section width, the unsteady wall correction values for a delta wing with a sweptback angle of  $70^\circ$  were greater than those with a sweptback angle of  $60^\circ$ .

**Keywords:** post-stall wall interference delta wings

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