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跨音速自适应风洞的任意初始壁方案

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WALL ADAPTATION AT TRANSONIC SPEEDS STARTED FROM ARBITRARY PRIMARY WALLS

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摘要

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摘要

提出一种新的二维柔壁自适应风洞进行跨音速三维模型实验时, 基于任意初始壁状态的洞壁调整方案, 讨论了在较高跨音速实验Ma数的实验条件下, 采用洞壁预调效应处理的洞壁自适应方案的实验结果。

关键词: 风洞试验 跨音速流 风洞壁干扰 自适应风洞

Abstract:

A wall adaptation strategy is put forward to test three dimensional models at transonic speeds in two dimensional adaptive wall wind tunnels. The departure effect of the aerodynamic walls from straight contour is evaluated by solving interference potential equation with FFT method and Wedemeyer theory is utilized for wall adjustment computation. Verification tests at high transonic Mach numbers show that the strategy is applicable to transonic adaptive wall wind tunnel testing.

Keywords: wind tunnel testing transonic flow wallinter ference a daptive wall wind tunnel

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