



航空学报 » 1996, Vol. 17 » Issue (S1) :76-78 DOI:

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叶片通道内二次涡的数值模拟

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NUMERICAL SIMULATION OF SECONDARY VORTICITIES IN BLADE PASSAGE

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摘要

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摘要 采用三维 Euler 方程数值模拟叶片通道内流向二次涡, 及其对叶片出口气流角的影响。算例表明: 采用这种方法可以计算出流向二次涡; 该涡造成的出口气流偏转角与实验值比较, 在远离壁面处相差较小。此方法可用于叶栅通道内流向二次涡的初步分析

关键词: 欧拉运动方程 二次流叶栅流 计算机化仿真

Abstract: The streamline secondary vorticities in blade passages were simulated numerically by Euler equations for the first time. The effects of the vorticities on outlet flow angles have also been predicted. The calculated results show that the vorticities can be simulated by the method and the difference between predicted and experimental deviation angles of outlet flow is relatively small in the region far from the end walls. The method can be used to roughly analyse the secondary flows in blade passages.

Keywords: Euler equation of motion secondary flow cascade flow computerized simulation

Received 1995-04-24; published 1996-11-25

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