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SIMPLE方法的敛散性

才大颖¹, 张池平²

1. 哈尔滨轻工业学校, 哈尔滨 150006; 2. 哈尔滨工业大学241教研室, 哈尔滨 150001

DIVERGENT AND CONVERGENT CHARACTERS OF SIMPLE METHOD

Cai Da-ying¹, Zhang Chi-ping²

1. Harbin light Industrial School, Harbin, 150006; 2. Harbin Institute of Technology, Harbin, 150001

摘要

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摘要 通过对轴对称突扩直管和突扩后缩环管流场的计算考察了SMPL正方法的敛散性。在源项处理、方程的非线性问题和解法等方面进行了分析。在此基础上研究了迭代初场的构成和斜壁网格的处理。提出了一种可行的算法。

关键词: 数值方法 粘流 N-S方程

Abstract: In present paper the divergent and convergent characters of SIMPLE method are investigated by taking them as calculating examples, which the flow field in axisymmetric sudden expanding straight nozzle and sudden shrink-after-sudden enlargement nozzle. A reliable calculating method is proposed, which had been successfully used in the calculation for flow fields mentioned above.

Keywords: Numerical method Viscous flow N-S equation

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