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文章名称: 小流量离心压缩机级内流动的数值研究*----- 马新民 等

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:: 文章简介 ::

摘要: 用CFD手段对某小流量离心压缩机级流量系数进行了数值模拟, 得出了叶轮内部流动的细节, 考察了叶轮内部二次流沿流向的发展, 并分析了叶轮内部流场特征的形成原因。结果表明: 该压缩机叶轮的二次流沿流道发展是减弱的, 并且对叶轮出口通流速度和出口气流角影响很大。

关键词: 离心式压缩机; 数值模拟; 二次流

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Numerical Research on the Flow in the Stage of Centrifugal Compressor with Small Flowrate

Abstract: In this paper, the flowrate coefficient in the stage of centrifugal compressor with small flowrate is numerically simulated using CFD means and the detail of internal flow in impeller is obtained. The development of second flow in impeller along streamline direction is studied and the forming reason for internal flow field characteristics of impeller is also analyzed. The results show that the second flow in the impeller of this compressor will be weakened along the streamline direction, and it has significant effects on the meridional velocity and the flow angle at the outlet of the impeller.

Key words: centrifugal compressor; numerical simulation; second flow

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