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文章名称: 用CFD研究离心压缩机叶顶间隙对内部流场的影响 ----- 张元兴 等

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:: 文章简介 ::

摘要: 采用商用软件NUMECAL中FINE/TURBO模块对低速大尺度离心压缩机(LSCC)在不同间隙条件下的内部流场进行了数值模拟。给出了压缩机叶轮出口处的通流速度分布以及不同截面二次流矢量、二次流流线等计算结果。结果表明: 叶顶间隙的大小与泄漏流动的强度和通道内的尾迹区位置分布密切相关, 泄漏流动与通道涡的相互作用严重影响了通道内的流场分布。关键词: 离心式压缩机 泄漏流动 叶顶间隙
Application of CFD Researching on the Influence of Top Blade Clearance on Inner Flow Field of Centrifugal Compressor
Abstract: The Fine/Turbo module in NUMECAL commercial software is applied to numerical simulate the inner flow field of Low-Speed Large-Scale centrifugal compressor with different clearance. The speed distribution of passage flow on the exit of compressor impeller and calculate results of quadric flow vector and quadric flow streamline with different sections are given. the results shows: The scale of top blade clearance is closely relative to the strength of leakage flow and distribution of tail trace position in passage, the leakage flow and passage vortex interaction has seriously affected the flow field distribution of inner passage. Key word: Centrifugal Compressor Leakage flow Top blade clearance

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