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文章名称: 安装角变化对多级轴流压缩机性能影响的分析-----李晓丽 等

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:: 文章简介 ::

摘要: 针对多级轴流压缩机在加工制造过程中叶片角度会与设计值产生偏差, 从而导致叶片安装角的变化, 而叶片安装角变化后对整台压缩机的压比和效率有何影响的问题, 进行了详细的分析。考虑到压缩机的级数多, 采用流线曲率方法对叶片安装角变化前后压缩机的性能进行了详细的分析。结果表明, 由于加工误差引起叶片安装角变化后, 多级压缩机的压比及效率会发生明显的变化。

关键词: 轴流式压缩机; 叶片; 安装角; 性能

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Analysis on the Influence of Variable Installation Angle on Performance of Multi-stage Axial-flow Compressor

Abstract: This paper describes the deviation occurred in the process of manufacturing and processing multi-stage axial-flow compressor between blade's angle and design value and this kind of deviation will cause the variation of blade's installation angle. According to the influence of the variation of blade's installation angle on pressure ratio and efficiency in the overall compressor, this paper made a detail analysis. Considering the large number of compressor's stage, the streamline curvature method is applied to analyze the performances before and after the variation of blade's installation angle. The result shows that the pressure ratio and efficiency in multi-stage compressor will change notably after the variation of blade's installation angle due to manufacturing mistake.

Key words: axial-flow compressor; blade; installation angle; performance

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地址: 沈阳经济技术开发区开发大路16号

电话: 024-25800521 25801521

传真: 024 -25800521 E-mail: ft@cftn.cn

