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带机匣处理的轴流压气机过速性能的研究

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RESEARCH ON THE POST STALL PERFORMANCE OF AN AXIAL COMPRESSOR WITH THE TREATED CASING

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摘要

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摘要

针对一种可提高压气机裕度而又不牺牲效率的新型机匣处理, 实验研究了亚音速单级轴流压气机孤立转子机匣处理前后的过速性能, 借助于压缩系统的一维逐级可压流数学模型, 发展了一种可用于带机匣处理的压气机过速性能预测程序, 并用它解释了机匣处理后转子所特有的失速现象。

关键词: 机匣处理 过速 压气机

Abstract:

Post stall performance of a subsonic isolated rotor with and without a new treated casing was investigated experimentally. The aerodynamic parameters of pre stall and post stall and the recovery forms from stalled flow were compared. Using a stage by stage post stall compression system modeling technique, the numerical simulation of the rotor performance in rotating stall with and without the treated casing was accomplished. With the help of the calculation results the unusual stall phenomena were explained.

Keywords: casing treatment post stall compressors

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