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机匣处理对压气机性能和气流结构影响的试验研究

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THE EFFECT OF CASING TREATMENT ON THE PERFORMANCE AND FLOWFIELD IN AXIAL COMPRESSORS

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摘要

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**摘要** 本文对实壁机匣和三种不同型式的轴向斜槽处理机匣进行了较为详细的试验研究。发现这类机匣处理结构不仅对压气机总性能有很大影响,而且对旋转失速的类型,失速团的空间传播和发展以及转子出口的流场均有很大影响。文中的试验结果对建立失速团的三维传播及发展模型,开发机匣处理的其它功能以及机匣处理结构实际应用都有工程价值。

**关键词:**

**Abstract:** An axial-flow compressor rotor was tested in detail with a solid casing and three types of skewed slot casing. It has been found that skewed slot casing has a great effect not only on the over-all performance of compressor, but also on the type of rotating stall, spatial propagation, development of stall cell and the flowfield behind rotor. The experimental results in this paper are valuable to establishment of three dimensional model of rotating stall, the exploitation of new function of casing treatment and the practical application of casing treatment in aviation industry.

**Keywords:**

Service

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