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4 种不同型式机匣处理的实验研究及机理分析

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EXPERIMENTAL RESEARCH ON FOUR KINDS OF TREATED CASINGS

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摘要

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摘要 利用一个亚音单级轴流压气机的孤立转子, 实验研究了周向槽式、缝式、斜沟槽式及凹槽叶片式 4 种型式的机匣处理, 详细对比了它们的若干形式对转子裕度、峰值效率及失速点效率的影响, 并针对实验结果阐述了各自作用的机理, 总结了许多对工程设计有参考价值的结论。

关键词: 机匣处理 转子裕度 效率

Abstract: The four kinds of compressor treated casings, i.e., grooved, slotted, sloped trench and recess vane casings, were designed and researched experimentally with the help of a subsonic isolated rotor. Aimed at the different geometric parameters of each treated casing, the influence on the stall margin and the efficiency at the stall boundary and the extreme value was investigated in detail. On the basis of analysing the experimental results, the mechanism that they affect the rotor performance was explained.

Keywords: casing treatment stallmargin efficiency

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