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文章名称: 对旋轴流通风机气动性能的数值预估 ----- 庞磊 等

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:: 文章简介 ::

摘要: 对某商用对旋轴流通风机设计工况附近多个工况, 分别采用单通道定常流和整机非定常流模型进行了气动性能的数值预估, 并和实测结果对比, 探讨了这两种数值模型用于对旋轴流通风机气动性能预估的可行性。

关键词: 对旋轴流通风机; 气动性能; 数值预估

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Numerical Prediction of Aerodynamic Performance for a Contra-rotating Axial-flow Fan

Abstract: The numerical prediction of aerodynamic performance for a commercial contra-rotating axial-flow fan has been carried out near the design operation using the models of single channel steady flow and whole fan unsteady flow respectively. The comparison between the results from these two models and the results from real test shows that the feasibility of these two models used in prediction of aerodynamic performance for contra-rotating axial-flow fans.

Key words: contra-rotating axial-flow fan; aerodynamic performance; numerical prediction

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