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文章名称: 后置导叶式轴流风机内流数值模拟及性能预测 ----- 肖 朋 等

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摘要: 以后置导叶型轴流风机为模型, 采用CFD方法对风机内部流场进行数值模拟, 揭示了其内部流场的基本特征; 进行了性能预测; 并与其气动性能进行了对比分析。结果表明: 采用CFD方法进行性能预测有较高的精度和可靠性, 同时可为内部流动优化提供依据。关键词: 轴流式通风机 数值模拟 性能预测 Abstract: The inner flow field of a axial fan with rear guide vanes, using the CFD software, was investigated by numerical method. The basic feature of the flow inside the axial fan has been showed; and the performance of the fan was predicted; and its aerodynamic performance was analyzed in comparison. The computed result shows, the performance predictions by CFD method is good precision and reliability, and it was available for inner flow optimization. Key words: Axial fan Numerical simulation Performance Prediction

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