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文章名称: 轮毂比对对旋轴流通风机性能影响的数值研究\*-----王会社 等

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:: 文章简介 ::

摘要: 为了研究采用等环量设计方法设计对旋轴流通风机时轮毂比的选择准则,以不同的轮毂比设计了5种对旋轴流通风机,并对这5种风机进行了数值研究。通过对5种对旋轴流通风机的叶片弦长及安装角、总体性能参数及速度矢量场等的分析,获得了轮毂比在对旋轴流通风机设计时的选择原则。

关键词: 对旋轴流通风机; 轮毂比; 性能; 数值研究

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Numerical Research on the Influence of Hub-tip Ratio on Performance of Counter-rotating Axial Flow Fan

Abstract: In this paper, for the purpose of investigating the selection criterion of the hub-tip ratio when designing a counter-rotating axial flow fan using the constant circulation flow pattern method, five counter-rotating axial flow fans have been designed with different hub-tip ratio and numerical research has been carried out to study these fans. Through analyzing the blade chords, setting angles, performance parameters and speed vector fields of the five fans, the selection criterion of the hub-tip ratio when designing counter-rotating axial flow fan is acquired.

Key words: counter-rotating axial flow fan; hub-tip ratio; performance; numerical research

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