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文章名称: 中低压轴流风机最优流型气动设计方法-----刘玉成 等

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:: 文章简介 ::

摘要: 采用最优化理论和数值计算方法, 应用VBA程序, 进行中低压轴流风机的最优化流型气动优化设计计算。运用孤立翼型和叶栅叶型相结合的理论, 在保证通风机结构参数不变的情况下, 通过改变环量指数来调整叶片的扭曲规律, 进行变环量流型的优化气动设计计算, 进而找到通风机设计工况下的效率最高点。

关键词: 轴流式通风机; 流型优化; 扭曲规律

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Aerodynamic Design Method for Optimization Flow Type of Medium and Low Pressure Axial-flow Fan

Abstract: In this paper, the optimization theory and numerical calculation method are adopted to carry out aerodynamic design and calculation for optimization flow type of medium and low pressure axial-flow fan with the application of VBA program. Under the condition of ensuring constant structure parameters of fan, the means of changing variable circulation exponent is adopted to adjust the twisting rule of blades based on the combination theory of isolated aerofoil and cascade blade profile. Then the aerodynamic design and calculation for optimization flow type with variable circulation exponent are realized and the maximum efficiency point under the design operation is found out.

Key words: axial-flow fan; optimization flow type; twisting rule

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