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文章名称: 新型双头反面对称翼型性能的数值研究

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:: 文章简介 ::

摘要: 针对由普通单向翼型对接而成的双头反面对称翼型, 对两种模型分别进行了数值模拟, 并把计算结果与试验结果进行对比。数值计算结果表明, 翼型的头部形状对该类翼型升力影响较大, 而对其阻力影响较小; 其次, 对于有大分离流动的情况, 定常条件下的阻力计算结果比试验数值大。关键词: 轴流式通风机 双头反面对称翼型 数值研究 性能 Value Research on Performance of New double-head reverse symmetric Airfoil Abstract: A new kind of double-head reverse symmetric airfoil made up of common isolated airfoils is calculation numerically. Compared with the experimental results, the simulation shows that, for double-head reverse symmetric airfoils, the head shape of the common airfoil plays great influence on its lift force, and less important influence on its resistance. Moreover, for the airfoils with large separated flow under large attack angles, the resistance coefficients simulated using steady flow computational codes are larger than the experimental data. Keywords: Axial Double-head reverse symmetric airfoil Numerical study Performance

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