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文章名称: 襟翼对风力机叶片翼型气动特性影响的数值模拟-----陈家权 等

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:: 文章简介 ::

摘要: 对S823翼型及其对应的带有Gurney襟翼的翼型进行了数值计算, 针对风力发电机运行环境, 研究Gurney襟翼对S823翼型气动性能的影响。计算结果表明: 带有Gurney襟翼的翼型明显改善了翼型压力面和吸力面的压力分布, 因此翼型升力及升阻比比翼型原型有显著增加。

关键词: 风力机; S823翼型; Gurney襟翼; 数值模拟

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The Numerical Simulation for the Influence of Flap on Aerodynamic Characteristic of Blade Aerofoil of Wind Turbine

Abstract: In this paper, the numerical simulation for S823 aerofoil and the corresponding aerofoil with Gurney flap is carried out. According to the operating environment of wind turbine generator, the influence of Gurney flap on aerodynamic characteristic of S823 aerofoil is researched. The calculation result shows that the aerofoil with Gurney flap has obviously improved the pressure distribution of pressure surface and suction surface. Therefore, the aerofoil lift force and lift-drag ratio are notably improved compared with aerofoil prototype.

Key words: wind turbine; S823 aerofoil; Gurney flap; numerical simulation

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