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圆柱绕流的环量控制

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CONTROL OF THE CIRCULATION AROUND A CIRCULAR CYLINDER

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摘要

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摘要 对用壁面射流控制圆柱绕流的问题进行了研究, 并探讨了喷口位置、多喷口吹气等问题。结果表明, 喷口位置对圆形翼型的气动特性影响很大; 多喷口吹气既可以提高圆形翼型的最大升力系数又可以降低吹气的能量消耗。

关键词: 圆柱 环量控制 多喷口吹气 N-S方程模拟

Abstract: This paper studies the control of the circulation around a circular cylinder with multi slot blowing, using the method of Navier Stokes equation simulation. Results show that, for single slot blowing, the slot location affects the aerodynamic characteristics of the cylinder greatly, the maximum lift coefficient of the cylinder is increased and the energy expense of blowing is greatly reduced with multi slot blowing.

Keywords: circular cylinder circulation control multi-slot blowing N-S equation simulation

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