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文章名称: 轴流通风机转子叶尖间隙非定常流动图谱测量与分析 ————— 刘 波 等

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:: 文章简介 ::

摘要: 借助动态压力测量设备和测试技术完成了某轴流通风机转子叶尖间隙非定常流动的测量过程, 通过对叶尖间隙的端壁压力的测量, 得到叶尖间隙非定常流动压力频谱, 揭示出转子前后间隙流动演变过程, 为深入了解叶尖间隙非定常流动及建立间隙流/主流相干模型提供了试验依据。关键词: 轴流式通风机; 间隙流动; 非定常流动; 频谱特性中图分类号: TH432.1 文献标识码: B 文章编号: 1006-8155 (2007) 05-0012-04 Measurement and Analysis on Tip Clearance Unsteady Flow Spectrum in an Axial-flow Fan Rotor
Abstract: The dynamic pressure measure device and test technology have been described in this paper to investigate tip clearance unsteady flow in an axial-flow rotor. Through analyzing pressure frequency spectrum acquired from measuring the unsteady pressure field of the tip endwall, the paper revealed the tip clearance unsteady flow development from inlet to outlet of the rotor. The experiment provides test basis for thoroughly understanding the tip clearance unsteady flow and building interaction model of tip clearance flow and main flow. Key words: axial-flow fan; tip clearance flow; unsteady flow spectrum properties

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