航空学报
ACTA AERONAUTICA ET ASTRONAUTICA SINICA
ISSN 1000-6893
CN 11-1929/V

航空学报 » 1994, Vol. 15 » Issue (12) :1438-1444 DOI:

一种应用分裂热膜测量带回流复杂湍流的方法

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A METHOD FOR MEASURING UNSTEADY SEPARATION TURBULKNT FLOW USING SPLIT-FILM

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摘要 给出一种用分裂热膜测量二维非定常湍流流动的方法。提出了两种新的数据处理算法并说明了其在计算精度和其它方面优于现有的数据处理算法。这一方法被成功地应用于对一准二维扩压器内的复杂湍流分离流动的测量。结果表明分裂热膜是测量研究带回流的复杂湍流分离流动的有力工具。

关键词： 分裂热膜 分离流 湍流测量

Abstract： A method of using split hot film is presented in the measurement of two dimensional Abstract A method of using split hot film is opresented in the measurement of two dimensinoal unsteady turbulence flows.Two noval data reduction algorithms were proposed and their merits and accuracies over existing algorithms were also presented.The method was successfully applied to the measurement of the complex turbulence separating flow in a quasi-two dimensional diffuser and it was shown that the split hot film is one of the powerful tools for the study ofcomplex turbulence flows with separation and reversal flow.

Keywords： split-Flm separation flow turbulent measurement

Received 1993-02-14; published 1994-12-25

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引用本文:

肖波;李雨春;徐力平. 一种应用分裂热膜测量带回流复杂湍流的方法[J]. 航空学报, 1994, 15(12): 1438-1444.

Xiao Po;Li Yuchun;Xu Liping. A METHOD FOR MEASURING UNSTEADY SEPARATION TURBULKNT FLOW USING SPLIT-FILM[J]. Acta Aeronautica et Astronautica Sinica, 1994, 15(12): 1438-1444.