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低速实壁风洞测压实验洞壁干扰修正研究

江桂清

中国气动力研究与发展中心

AN INVESTIGATION OF WALL INTERFERENCE CORRECTION TO THE PRESSURE MEASUREMENT IN LOW SPEED WIND TUNNEL WITH SOLID WALLS

Jiang Guiqing

China Aerodynamics Research and Development Center

摘要

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摘要 本文用壁压信息矩阵法对不同绕流特性的。测压数据进行修正,均获满意结果。文中证明了洞壁对模型驻点的压力不产生干扰;分析了测压实验洞壁干扰特性与规律,对不同修正公式作了对比;进而说明不能用对速压修正的方法消除洞壁干扰

关键词:

Abstract: Pressure measurement was made on a group of cuboids and cylinders with streamlined nose in a low speed wind tunnel. Each group consists models of different sizes with blockage ratio of 4.4%, 6%, 12% and 17.5% respectively. During testing the pressure on the wall of the tunnel was measured. The pressure results corrected by wall pressure signature matrix method are presented. The results show that although the flow characteristics around the two groups of models are completely different, the pressure coefficients of different models corrected by the method tend to agree with each other. It has been proved that pressure at the stagnation point on the model is not effected by the wall and the wall blockage interference can not be eliminated by applying dynamic pressure correction for the pressure measurement.

Keywords:

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