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## SDM 标模大攻角动导数试验

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### HIGH ANGLE OF ATTACK DYNAMIC DERIVATIVE EXPERIMENT OF STANDARD DYNAMIC MODEL

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摘要

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摘要 介绍了CARDC高速所1.2m风洞大攻角的动导数试验装置与测量系统以及在1.2m风洞中对标准动态模型(SDM标模)所作的一系列风洞试验结果。试验结果与国外文献数据具有较好的一致性。试验结果随马赫数和攻角的变化表现出明显的非线性,而减缩频率的影响并不显著。天平与测试系统的重复性精度较高。

关键词:

Abstract: The test mechanism of dynamic stability derivative with high angles of attack and its measuring system are presented together with typical test results of a Standard Dynamic Model(SDM) in 1.2m transonic wind tunnel in high speed institute of CARDC. The test results are closely related to published abroad data, the results of dynamic stability derivative depend nonlinearly on Mach number and angle of attack, and the effect of reduced frequency is less prominent. The repeatability errors of the balance and measuring system are improved.

Keywords:

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