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三角翼俯仰滚转耦合运动气动特性研究

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INVESTIGATION OF UNSTEADY AERODYNAMIC CHARACTERISTICS FOR A DELTA WING OSCILLATING IN LARGE AMPLITUDE PITCHING ROLL MOTION

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摘要 介绍一套用于3 m 低速风洞的俯仰滚转两自由度大振幅非定常实验系统，并利用该系统对一三角翼单独俯仰和滚转及俯仰滚转耦合运动时的非定常气动特性进行了研究。结果表明，飞行器俯仰滚转耦合运动时的气动特性比单独俯仰和滚转时的气动特性复杂得多。

关键词： 俯仰 滚转 大振幅 非定常实验

Abstract： This paper is intended to develop a set of the test technology of unsteady aerodynamic characteristics for the model oscillating in large amplitude pitch roll motion. The equipment was used in a 3 meter low speed wind tunnel at NUAA and a delta wing was tested. The results show that unsteady aerodynamic characteristics of a delta wing oscillating in large amplitude pitching roll motion are more complicated than in pitching motion or in roll motion.

Keywords： pitching rolling large amplitude unsteady wind tunnel test

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