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论文

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### 过失速机动的操纵要求

张曙光, 方振平

北京航空航天大学 509 教研室, 北京, 100083

### CONTROL REQUIREMENTS FOR POST STALL MANEUVERING

Zhang Shuguang, Fang Zhenping

Faculty 509, Beijing University of Aeronautics and Astronautics, Beijing, 100083

摘要

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**摘要** 从飞机设计的角度分析了过失速机动飞行的操纵要求问题。将其分解为进入、滚转、退出 3 个基本方面考虑, 并提出相应的估算方法。其中以类似 Cobra 的机动估算基本进入、退出要求, 以无侧滑滚转机动作为更深入的要求。由此得出的算例飞机的要求趋势与数值仿真结果具有良好的一致性

**关键词:** 过失速机动 操纵要求 估算

**Abstract:** From the viewpoint of aircraft design, a topic on control design requirements for post stall maneuvering is tackled. It is first resolved into three basic aspects of consideration, i.e., entry into post stall region, rolling and recovery. The accompanying estimation principles are then presented, where the Cobra type maneuver is employed for basic estimation on entry and recovery, and the non sideslip roll is for further requirements. The estimated tendency in control requirements of an example aircraft configuration agrees well with that from numerical simulations.

**Keywords:** post stall maneuvering control requirements estimation

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