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### 飞行器机构可靠性分析技术及应用

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### Analysis Techniques for Aircraft Mechanism Reliability and Application

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摘要

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**摘要** 针对机构可靠性进行了系统分析研究,提出了机构可靠性研究的内涵,明确了机构运动可靠性、机构强度可靠性和机构系统可靠性的内容。综合分析了机构可靠性涉及的理论和方法,初步分析了涉及不同学科的协同设计仿真的关键技术,并系统的给出了机构可靠性分析仿真软件平台方案。最后,针对某型飞机升降舵操纵机构进行了应用研究。

**关键词:** 机构 可靠性 运动 计算机仿真 飞机升降舵

**Abstract:** After studying the mechanism reliability problem systematically, the intension of mechanism reliability is identified, and it includes the moving reliability, strength reliability and system reliability. Then the theory and methods of mechanism reliability are defined, and the key technologies are put forwards. At last, the software scheme of the mechanism reliability simulation is defined, and a case of an elevator control mechanism is presented.

**Keywords:** mechanism reliability moving computer simulation elevator

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