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直升机空中振荡故障的试验研究与预防

忻志明

空军第一研究所

EXPERIMENTAL INVESTIGATION OF IN-FLIGHT OSCILLATION ON HELICOPTERS AND ITS PREVENTION

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摘要

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摘要 首先概述了故障的主要现象与特征。然后着重描述了直升机空中振荡故障的试验研究:包括研究途径;直升机模型的建立;两个回路振荡试验及其主要研究成果。据此提出了在设计,使用中的一些预防原则和措施。

关键词: 直升机 故障 试验研究

Abstract: In this paper, the main phenomena and features of in-flight oscillation failure on helicopters are summarized. Then, the experimental investigation of the failure is deescribed. The investigaiton consists of the research approaches, the flight dynamic model of the helicopter. The experimental investigation on the control system -autopilot loop oscillation and pilot-induced helicopter oscillation, and the research results are also presented. Accordingly, some failure prevention principles and measures for design and operation are proposed.

Keywords: Helicopter failure experimental investigation

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