首页 | 关于本刊 | 编 委 会 | 最新录用 | 过刊浏览 | 期刊征订 | 下载中心 | 广告服务 | 博客 | 论坛 | 联系我们 | English

















航空学报 » 1989, Vol. 10 » Issue (6):339-341 DOI:

最新目录 | 下期目录 | 过刊浏览 | 高级检索

◀◀ 前一篇 | 后一篇 ▶▶



歼击机主起落架充气嘴处的应力测定研究

谢永华,郑斯滔,崔振源

西北工业大学

THE INVESTIGATION OF STRESS AT AN ENTER-GAS NOZZLE OF MAIN LANDING GEARS FOR FIGHTER AEROPLANES

Xie Yonghua, Zheng Sitao, Cui Zhenyuan

Northwestern Polytechnical University

摘要 参考文献 相关文章

Download: PDF (316KB) HTML OKB Export: BibTeX or EndNote (RIS) Supporting Info

摘要

歼击机在使用中发生主起落架外筒断裂事故,其中有的是在起落架外筒充气嘴的内螺纹处断裂。本文给出改型后起落架外筒充气嘴处的应力分布, 提供起落架寿命估算和今后设计的依据,对改进后的起落架外筒进行了应力测定。

关键词: 主起落架 充气嘴 应力

Abstract:

In this paper, the distribution of axial stress at the cross-section of an enter-gas nozzle of main landing gears and the distribution of circumferential stress at a screwed hole of the enter-gas nozzle are investigated by using photoelasticity. The stress intensity factor KI of an enter-gas nozzle containing semi-ellipic crack is also investigated by using both photoelastic and acoustic technique. The former experimental results are in agreement with analytical results. The difference between the latter experimental techniques is within 10 percent. This is satisfactory in engineering use. The values determinated by the experiments are lower than the ultimate values σb and KIc of the material used in the design of the landing gear. Therefore, The landing gear redesigned is rational and safe.

Keywords: main landing gear enter-gas nozzle stress

Received 1988-04-12;

引用本文:

谢永华;郑斯滔;崔振源. 歼击机主起落架充气嘴处的应力测定研究[J]. 航空学报, 1989, 10(6): 339-341.DOI:

Xie Yonghua; Zheng Sitao; Cui Zhenyuan. THE INVESTIGATION OF STRESS AT AN ENTER-GAS NOZZLE OF MAIN LANDING GEARS FOR FIGHTER AEROPLANES[J]. Acta Aeronautica et Astronautica Sinica, 1989, 10(6): 339-341.DOI:

Service

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ Email Alert
- **▶** RSS

- ▶ 谢永华
- ▶ 郑斯滔
- ▶ 崔振源

Copyright 2010 by 航空学报