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 » 1990, Vol. 11 » Issue (3):188-193 DOI:

论文

最新目录 | 下期目录 | 过刊浏览 | 高级检索

<< Previous Articles | Next Articles >>

直升机"地面共振"力学模型的探讨

顾仲权

南京航空学院

A STUDY ON MECHANICAL MODEL OF THE HELICOPTER "GROUND RESONANCE"

Gu Zhongquan

Nanjing Aeronautical Institute

Download: PDF (430KB) HTML 0KB Export: BibTeX or EndNote (RIS) Supporting Info

摘要 <正> I_B 桨叶绕垂直铰的转动惯量I_(?),I_(?),I_(?) 机身绕过其重心O的x,y,z 轴的转动惯量ι 桨叶长度m_B 单片桨叶的质量

关键词: 直升机 地面共振 动稳定性

Abstract: The key problem for the calculation and optimization design of the helicopter "Ground Resonance" is to correctly build up a mechanical model. In the past the literature only concerned with the lag modes of the rotor blade and the flap modes were neglected. But such approachs should be reconsidered now. In order to study the influences of rotating multiblades rotor on the degrees of freedom but also the Hap "Ground Resonance of a helicopter it is necessary to consider not only the lag degrees of freedom but also the flap degrees of freedom. Using Lagrangian equation a dynamical equation of the space mode! for helicopter Ground Resonance" was deduced for the first time. Some computation results show that the mechanical model including both lag DOF and flap DOF are more reasonable.

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

作者相关文章

▶ 顾仲权

Keywords: hlicopter Ground Resonance dynamical instability

Received 1988-12-29; published 1990-03-25

引用本文:

顾仲权. 直升机"地面共振"力学模型的探讨[J]. 航空学报, 1990, 11(3): 188-193.

Gu Zhongquan. A STUDY ON MECHANICAL MODEL OF THE HELICOPTER "GROUND RESONANCE"[J]. Acta Aeronautica et Astronautica Sinica, 1990, 11(3): 188-193.

Copyright 2010 by 航空学报