



航空学报 » 2001, Vol. 22 » Issue (6) :481-485 DOI:

论文

最新目录 | 下期目录 | 过刊浏览 | 高级检索

<< | Next Articles >>

### 伞一弹系统三体运动分析

舒敬荣, 王宝贵, 韩子鹏, 卢春梅

南京理工大学802教研室 江苏南京 210094

### ANALYSIS ON THREE BODY MOTION OF PARACHUTE-PROJECTILE SYSTEMS

SHU Jin-rong, WAN Bao-gui, HAN Zi-peng, LU Chun-mei

Dynamics Engineering college, Nanjing University of Science and Technology, Nanjing 210094, China

摘要

参考文献

相关文章

Download: PDF (323KB) HTML OKB Export: BibTeX or EndNote (RIS) Supporting Info

**摘要** 理论上分析了末敏弹系统伞、伞盘、弹三刚体间的力学关系,考虑了系统的连接方式和约束、分析了伞绳弹性,建立了三体运动的数学模型,算例表明所描述的运动与实测运动规律和扫描特性相符,因此该模型可用于末敏弹总体和扫描装置的分析 and 设计。

**关键词:** 飞行力学 外弹道学 降落伞 末敏弹

**Abstract:** This paper studies the dynamic relations of three rigid bodies among parachute, plate and projectile of Target Sensitivity Projectile (TSP), analyses the joining mode and binding, and considers elasticity of the parachute rope. The equations are established. An example indicates the consistency of scanning characteristics and the rule between the real movement and the movement described by the model. So the model can be used in the TSP total design and scanning equipment design.

**Keywords:** flight mechanics exterior ballistics parachute target sensitivity projectile

Received 2000-05-12; published 2001-12-25

#### 引用本文:

舒敬荣;王宝贵;韩子鹏;卢春梅. 伞一弹系统三体运动分析[J]. 航空学报, 2001, 22(6): 481-485.

SHU Jin-rong; WAN Bao-gui; HAN Zi-peng; LU Chun-mei. ANALYSIS ON THREE BODY MOTION OF PARACHUTE-PROJECTILE SYSTEMS[J]. Acta Aeronautica et Astronautica Sinica, 2001, 22(6): 481-485.

#### 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

- ▶ 舒敬荣
- ▶ 王宝贵
- ▶ 韩子鹏
- ▶ 卢春梅