



航空学报 » 1994, Vol. 15 » Issue (5) :564-569 DOI:

论文

[最新目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)

[<<](#) [<](#) [前一篇](#) | [后一篇](#) [>](#) [>>](#)

反坦克导弹的一种自校正制导控制方法

刘民, 康景利

北京理工大学飞行器工程系,北京,100081

A SELF-TUNING GUIDED CONTROL METHOD OF ANTI-TANK MISSILE

Liu Min, Kang Jingli

Dept. of Flying Vehicle Engineering of Beijing Institute of Technology, Beijing, 100081

摘要

参考文献

相关文章

Download: [PDF \(398KB\)](#) [HTML OKB](#) Export: [BibTeX](#) or [EndNote \(RIS\)](#) [Supporting Info](#)

摘要 利用规范化模型和加权自校正控制方法,对反坦克导弹提出了一种自校正控制器。并在广义最小方差自校正控制律中引入了能自动调整的加权因子,以兼顾系统的稳定性和动态性能指标及适应反坦克导弹快速时变对象的控制要求。数字仿真结果表明,这种控制器对反坦克导弹有很好的控制效果,而且控制器算法简单,对过程的非线性、阶次失配和未建模扰动均有较强的鲁棒性。

关键词: 导弹制导 正规化 自动控制 加权函数

Abstract: For anti-tank missile, this paper presents a self-tuning controller by means of normalized model and weighting self-tuning control method. An auto-regulation weighting factor is introduced into the generalized minimum variance self-tuning control law in order to take account of both the stability and the dynamic index of the system and fit in with the needs of the control for the fast time-varying plant like anti-tank missile. The digital simulation shows that the controller is satisfactory for anti-tank missile. The controller has simple algorithm and stronger robustness for nonlinear, mismatched order and unmodeled disturbance of the process.

Keywords: missile guidance (motion) normalizing (stationation) automatic control weighting functions

Received 1992-07-22; published 1994-05-25

引用本文:

刘民; 康景利. 反坦克导弹的一种自校正制导控制方法[J]. 航空学报, 1994, 15(5): 564-569.

Liu Min; Kang Jingli. A SELF-TUNING GUIDED CONTROL METHOD OF ANTI-TANK MISSILE[J]. Acta Aeronautica et Astronautica Sinica, 1994, 15(5): 564-569.

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

- ▶ 刘民
- ▶ 康景利