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Title: The Research on Computing Method for Firing Data of Boost-glide Aircraft

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摘要: 研究助推滑翔飞行器发射诸元计算方法。助推滑翔飞行器的发射诸元计算方程组为欠定方程组,文中基于发射诸元对飞行轨迹的影响分析,提出了助推滑翔飞行器诸元计算策略,将欠定方程组分解为多个恰定方程组,然后运用牛顿迭代模拟打靶法设计了助推滑翔飞行器发射诸元计算算法。最后,实际算例表明文中设计的助推滑翔飞行器发射诸元牛顿迭代模拟打靶算法是可行的。

Abstract: The computing method for firing data of boost-glide aircraft was investigated. In the paper, based on analysis of the impact of firing data on aircraft trajectory, a delamination tactic of computing was proposed. The underdetermined equations of basic firing data of boost-glide aircraft were divided into several groups of determined equation, then the computing method for basic firing data of boost-glide aircraft was designed with the Newton iterative algorithm of simulation of target practice. Finally, the feasibility of this approach was proven by an example.

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参考文献/REFERENCES

[1] 陈克俊. 载入飞船上升段轨道的Newton迭代设计法[J]. 国防科技大学学报, 1992, 14(2): 66-71.

[2] 贾沛然,陈克俊,何力.远程火箭弹道学[M].长沙:国防科技大学出版社,1993:217-220.