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### 大气层外拦截变结构导引律

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#### VARIABLE STRUCTURE GUIDANCE LAW FOR EXTRA-ATMOSPHERIC INTERCEPTION

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摘要

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**摘要** 讨论了大气层外空间飞行器拦截的变结构导引律问题。从变结构控制理论出发,按照最终零控导引拦截的要求,确定切换函数,利用趋近律控制方法改善控制过程品质的特点,导出一种具有强鲁棒性的空间拦截导引律。最后给出了在具体条件下的仿真结果,并与比例导引律、最优导引律作了比较

**关键词:** 大气层外拦截 变结构 导引律

**Abstract:** The variable structure guidance law of extra atmospheric interception is studied. In order to eliminate the effects of outer and systematic perturbation and disturbance, a guidance law based on the variable structure control theory with a strong robustness is proposed. The coefficient matrix of the switching function is determined by the concept of zero control interception. The asymptotic law which guarantees the quality of transient process before reaching the switching surface is used in practice. The results of digital simulation and comparison with the proportional and optimal guidance laws are included.

**Keywords:** extraatmo spheric interception variable structure guidance law

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