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空间拦截红外末制导中拦截器与目标相对距离的估计

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ESTIMATION OF THE RANGE BETWEEN THE INTERCEPTOR AND THE TARGET DURING INFRARED TERMINAL GUIDANCE OF SPACE INTERCEPTION

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摘要

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摘要 从空间拦截运动学方程出发建立了一个恰当的数学模型, 运用基于两种规范型的非线性状态观测器设计方法, 通过对相对速度在视线法向分量的观测, 解决了红外末制导中拦截器与目标相对距离的估计问题。仿真结果表明估计的效果良好。

关键词: 空间拦截 末制导 最优控制

Abstract: A proper mathematical model is built according to the kinematic equations of space interception. After the component of the relative velocity normal to the line of sight is observed using a nonlinear observer design method with two canonical forms, the problem of estimating the range between the interceptor and the target during infrared terminal guidance of space interception is solved. The numerical simulation verifies the above results.

Keywords: space- interception terminal guidance optimal control

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