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空-空导弹投放系统误差与误差敏感度分析

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ANALYSIS OF ERRORS SENSITIVITY FOR AIR TO AIR MISSILE LAUNCH CONTROL PARAMETERS

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摘要

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摘要 空对空导弹发射控制参数的计算及其误差分析, 是保证攻击有效性的重要环节。介绍了前置追踪攻击原理, 给出了空空导弹发射控制参数的计算模型, 建立了系统误差分析的仿真结构, 提出用小扰动法来研究发射控制参数与扰动误差源的敏感关系, 并进行了敏感度计算

关键词: 空空导弹 导弹发射 误差分析

Abstract: The analysis of errors and computation on air to air missile launch and control parameters are an important link to ensure an effective attack. The lead pursuit attack mode is described and a model to compute missile launch and control parameters is given. The computer simulation constructure of missile delivery errors analysis is established and the sensitivities of the missile launch and control parameters to error sources are studied based on the small perturbation method.

Keywords: air to air missile missile launching error analysis

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