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一种简单的中远程空-空导弹中制导律研究

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INVESTIGATION OF SIMPLE MIDCOURSE GUIDANCE FOR LONG AND MEDIUM RANGE AIR TO AIR MISSILES

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摘要

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摘要 基于奇异摄动方法, 提出了中远程空-空导弹由爬升段控制、巡航段控制和交接段最小能量控制 3 部分构成的次优中制导律。根据工程实际要求, 给出了简单的、易于实现的中制导律执行算法。结果表明, 该制导律较好地满足了中制导段的要求。

关键词: 中制导律 奇异摄动理论 中远程空空导弹

Abstract: Based on the singular perturbation theory and feedback linearization methodology, a new guidance is obtained by constructing a composite control law from a climbing phase control, cruising phase control and switching phase control. In order to reduce onboard computation, a simple close loop guidance algorithm is given. Finally, the simulation results of a certain kind of air to air missile is presented. It is shown that application of the new guidance law results in smaller heading errors at handover.

Keywords: midcourse guidance law singular perturbation theory long- and medium-range air-to-air missiles

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