



航空学报 » 1986, Vol. 7 » Issue (3) :291-297 DOI:

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考虑一阶环节和法向约束的最优导引律

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OPTIMAL GUIDANCE LAW WITH FIRST ORDER LAG LOOP AND NORMAL CONSTRAINT

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摘要

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摘要

前言 目前关于最优导引律的文献中,除文献讨论了将导引对象视为具有瞬时响应特性的质点,考虑了控制的法向约束而外,其他均未考虑控制的约束问题。为了大幅度地提高导引精度,在建立“导引对象—目标”的数学模型时,就必须考虑导引对象的动态响应。

关键词:

Abstract:

An optimal guidance law based on the maximum principle is discussed in this paper. It is assumed that the kinetic characteristics of "vehicle-target" are that of a first order lag loop which can be described as follows: the performance index is the minimum control energy consumption, the terminal states belong to a intercept curved surface with control cutoff and the terminal acceleration of the vehicle equals zero; the control force satisfies the normal constraint; Based on these assumptions, an analytical form of the closed loop optimal intercept guidance law has been deduced.

Keywords:

Received 1984-11-09;

引用本文:

詹致祥. 考虑一阶环节和法向约束的最优导引律[J]. 航空学报, 1986, 7(3): 291-297. DOI:

Zhan Zhixiang. OPTIMAL GUIDANCE LAW WITH FIRST ORDER LAG LOOP AND NORMAL CONSTRAINT[J]. Acta Aeronautica et Astronautica Sinica, 1986, 7(3): 291-297. DOI:

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