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Robust控制器在导弹自动驾驶仪中的应用

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APPLICATION OF ROBUST CONTROLLER TO THE DESIGN OF AUTOPILOT FOR GUIDED MISSILE

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摘要

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摘要 本文提出一种改进自动驾驶仪性能的方案。在导弹自动驾驶仪原回路的基础上增加Robust控制器,这种方案可提高驾驶仪对参数变化的Robust性能。本文详细叙述了Robust控制器结合自动驾驶仪的设计方法,并用仿真结果说明了Robust控制器在本算例中所起的作用。

关键词:

Abstract: In this paper, we develop a new autopilot scheme for guided missile. The scheme dose not change the oringinal structures of the autopilot, only adds a robust controller as an outer loop for the original autopilot. For -this reason, the new scheme is very easy to implement. This new scheme makes the dynamic performance of the flight system insensitive to the variation of the parameters of the guided missile. In this paper, we first verify the existance of the robust controller for the autopilot of the guided missile, and then explain in detail the design method of the servo-compensator and the stabilizing compensator, which are the two main distinct parts of the robust controller for the new-autopilot scheme. The robust properties of the new scheme are also examined by computer simulation, the properties are superior to those of the o-riginal scheme.

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