High Altitude Air Defense with Intelligent Fuzzy Terminal Guidance Law by Taking Turning Rate and Radome Error Slope into Consideration

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Abstract

This research provides a missile PD-type as well as PID-type fuzzy terminal guidance laws design for high altitude air defense. Both the missile turning rate time constant and radome slope error are taken into consideration. Comparisons with the traditional proportion navigation method are also made; the miss distances obtained by the proposed methods are lower.

Keyword：fuzzy guidance law; proportion navigation; turning rate time constant; radome error slope; miss distance