

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

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Abstract

This research provides a missile PID-type fuzzy terminal guidance law design for high altitude air defense. Not only the missile turning rate and guidance filter time constants but the radome-slope-error effects are taken into consideration. Comparisons with the previous PN guidance laws are also made; the miss distances obtained by the proposed method are lower.

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