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AN EVALUATION OF THE ROLL-RATE STABILIZATION SYSTEM OF THE SIDEWINDER MISSILE AT MACH NUMBERS FROM 0.9 TO 2.3



An Evaluation of the Roll-Rate Stabilization System of the Sidewinder Missile at Mach Numbers from 0.9 to 2.3

NASA Technical Reports Server (NTRS), et al., Martin L. Nason

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. A linear stability analysis and flight-test investigation has been performed on a rolleron-type roll-rate stabilization system for a canard-type missile configuration through a Mach number range from 0.9 to 2.3. This type damper provides roll damping by the action of gyro-actuated uncoupled wing-tip ailerons. A dynamic roll instability predicted by the analysis was confirmed by flight testing and...

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