



A Wind Tunnel Investigation of Joined Wing Scissor Morphing (Paperback)

By Christopher Dike

Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The Air Force Research Laboratory s Munitions Directorate has been looking to extend the range of its small smart bomb. Corneille [6] has conducted tests to determine the aerodynamic characteristics of joined wings on a missile and determine if joined wings are more beneficial than a single wing configuration. The concept of retrofitting wings on the bomb introduced an interesting problem: storage before deployment. This study conducted steady-state low speed wind tunnel testing of a joined wing configuration that morphed from a compact configuration for storage to a full extension. These steady-state tests examine differing sweep angles of the same joined wing configuration. The lift and drag as well as pitching moments and rolling moments were determined and analyzed for the effects of morphing.



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Reviews

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