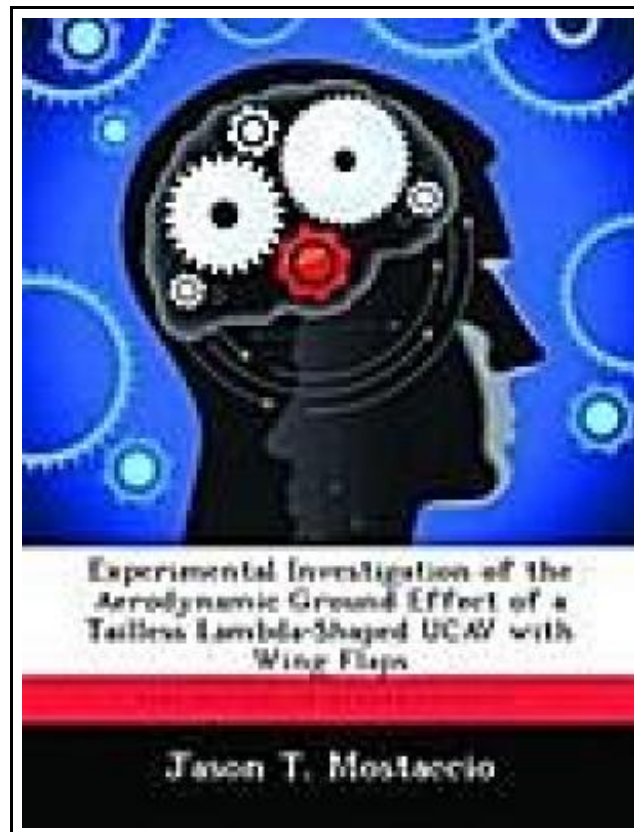


## Experimental Investigation of the Aerodynamic Ground Effect of a Tailless Lambda-Shaped UCAV with Wing Flaps



Filesize: 3.36 MB

### **Reviews**

*It is great and fantastic. Sure, it is actually perform, nevertheless an amazing and interesting literature. Once you begin to read the book, it is extremely difficult to leave it before concluding.*  
(Ivy Hilll DDS)

## EXPERIMENTAL INVESTIGATION OF THE AERODYNAMIC GROUND EFFECT OF A TAILLESS LAMBDA-SHAPED UCAV WITH WING FLAPS



To save **Experimental Investigation of the Aerodynamic Ground Effect of a Tailless Lambda-Shaped UCAV with Wing Flaps** PDF, make sure you follow the link listed below and save the file or have accessibility to other information that are relevant to EXPERIMENTAL INVESTIGATION OF THE AERODYNAMIC GROUND EFFECT OF A TAILLESS LAMBDA-SHAPED UCAV WITH WING FLAPS book.

Biblioscholar Okt 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x13 mm. This item is printed on demand - Print on Demand Neuware - This experimental study adequately identified the ground effect region of a lambda-shaped unmanned combat air vehicle (UCAV). The lambda planform used in this study was originally tested in a previous experiment to determine the stability and control characteristics generated out-of-ground-effect. The following study extends the existing database by analyzing the inherent aerodynamic behavior that is produced by employing trailing edge flap deflections while flying in-ground-effect (IGE). To accomplish this objective, static ground effect tests were performed in the AFIT 3' x 3' subsonic wind tunnel where a ground plane was used to simulate the forces and moments on the UCAV IGE. Removable aluminum flap pieces were attached to the model, in a split flap configuration, along the midboard and outboard trailing edges of the UCAV, and the corresponding IGE data was collected for symmetric and asymmetric deflections of +10° and +20°. Based on the results of this study, the ground effect region for the lambda UCAV, with flaps deployed was characterized by an increase in the lift, a reduction in the induced drag but an increase in the overall drag, and an increase in the lift-to-drag ratio. These trends were noted in previous ground effect studies for aircraft with trailing edge flaps, and similar aspect ratios and wing sweep. Additionally, a flow visualization analysis revealed that a vortical flow pattern, that is characteristic of delta wing configurations, developed over the upper surface of the wing at high angles of attack. 212 pp. Englisch.



[Read Experimental Investigation of the Aerodynamic Ground Effect of a Tailless Lambda-Shaped UCAV with Wing Flaps Online](#)



[Download PDF Experimental Investigation of the Aerodynamic Ground Effect of a Tailless Lambda-Shaped UCAV with Wing Flaps](#)

## See Also



### **[PDF] Psychologisches Testverfahren**

Click the hyperlink listed below to download and read "Psychologisches Testverfahren" document.

[Read Book »](#)



### **[PDF] Programming in D**

Click the hyperlink listed below to download and read "Programming in D" document.

[Read Book »](#)



### **[PDF] New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond**

Click the hyperlink listed below to download and read "New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond" document.

[Read Book »](#)



### **[PDF] Sport is Fun (Red B) NF**

Click the hyperlink listed below to download and read "Sport is Fun (Red B) NF" document.

[Read Book »](#)



### **[PDF] Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird**

Click the hyperlink listed below to download and read "Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird" document.

[Read Book »](#)



### **[PDF] The Java Tutorial (3rd Edition)**

Click the hyperlink listed below to download and read "The Java Tutorial (3rd Edition)" document.

[Read Book »](#)