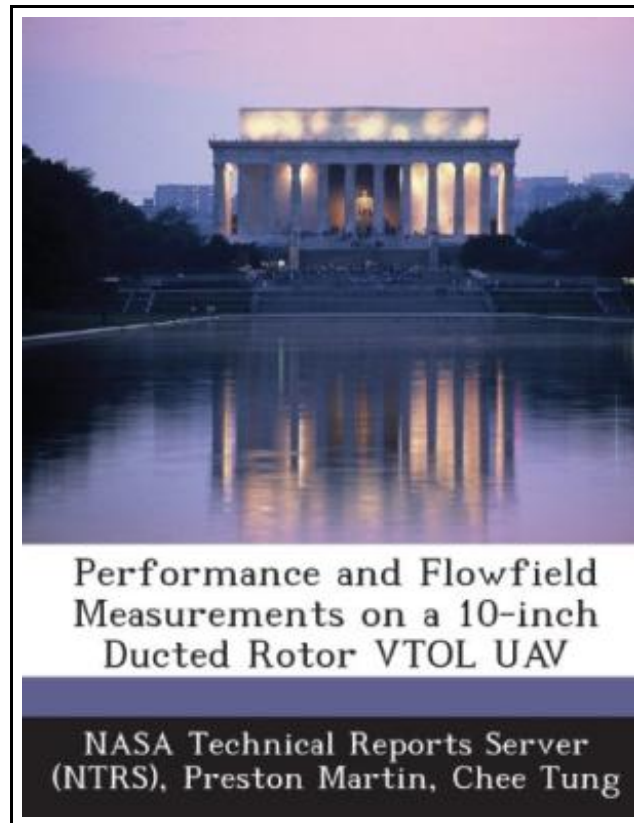


## Performance and Flowfield Measurements on a 10-Inch Ducted Rotor Vtol Uav



Filesize: 8 MB

### ***Reviews***

*Complete guide! Its such a excellent read through. It is full of wisdom and knowledge I am very happy to inform you that here is the very best pdf i have got study inside my very own daily life and might be he very best pdf for possibly.*

***(Mr. Ronaldo Kulas)***

## PERFORMANCE AND FLOWFIELD MEASUREMENTS ON A 10-INCH DUCTED ROTOR VTOL UAV

DOWNLOAD



To download **Performance and Flowfield Measurements on a 10-Inch Ducted Rotor Vtol Uav** eBook, please refer to the web link under and save the ebook or have accessibility to other information that are relevant to PERFORMANCE AND FLOWFIELD MEASUREMENTS ON A 10-INCH DUCTED ROTOR VTOL UAV ebook.

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.A ducted fan VTOL UAV with a 10-inch diameter rotor was tested in the US Army 7-by 10-Foot Wind Tunnel. The test conditions covered a range of angle of attack from 0 to 110 degrees to the freestream. The tunnel velocity was varied from 0 (simulating a hover condition) to 128 ft/sec in propeller mode. A six-component internal balance measured the aerodynamic loads for a range of model configurations, including the isolated rotor, the isolated duct, and the full configuration of the duct and rotor. For some conditions, hotwire velocity surveys were conducted along the inner and outer surface of the duct and across the downstream wake. In addition, fluorescent oil flow visualization allowed the flow separation patterns inside and outside of the duct to be mapped for a few test conditions. Two different duct shapes were tested to determine the performance effects of leading edge radius. For each duct, a range of rotor tip gap from 1 R to 4.5 R was tested to determine the performance penalty in hover and axial flight. Measured results are presented in terms of hover performance, hover performance in a crosswind, and high angle of attack performance in propeller mode. In each case, the effects of both tip gap and duct leading edge radius are illustrated using measurements. Some of the hover performance issues were also studied using a simple analytical method, and the results agreed with the measurements.



[Read Performance and Flowfield Measurements on a 10-Inch Ducted Rotor Vtol Uav Online](#)



[Download PDF Performance and Flowfield Measurements on a 10-Inch Ducted Rotor Vtol Uav](#)

## See Also



**[PDF] Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Follow the link beneath to read "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications ." PDF document.

[Read ePub »](#)



**[PDF] Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers**

Follow the link beneath to read "Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers" PDF document.

[Read ePub »](#)



**[PDF] Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625)**

Follow the link beneath to read "Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625)" PDF document.

[Read ePub »](#)



**[PDF] Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625)**

Follow the link beneath to read "Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625)" PDF document.

[Read ePub »](#)



**[PDF] A Kindergarten Manual for Jewish Religious Schools; Teacher s Text Book for Use in School and Home**

Follow the link beneath to read "A Kindergarten Manual for Jewish Religious Schools; Teacher s Text Book for Use in School and Home" PDF document.

[Read ePub »](#)



**[PDF] Southern Educational Review Volume 3**

Follow the link beneath to read "Southern Educational Review Volume 3" PDF document.

[Read ePub »](#)