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PROPELLER PERFORMANCE TEST -
Virginia Tech
Low and High Speed Propellers for
General Aviation - Performance Potential
and Recent Wind Tunnel Test Results

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Robert J. Jeracki and Glenn A. Mitchell
Lewis Research Center Cleveland, Ohio
Prepared for the National Business
Aircraft Meeting sponsored by the Society
of Automotive Engineers Wichita, Kansas,
April 7-10, 1981 i l !

Propeller performance measurement for

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low Reynolds number ...

measurements of thrust, torque, rotational speed, static pressures, atmospheric pressure, and temperature are gathered. From these quantities, propeller power and air density are calculated, respectively, according to: (6) (7) The above measured and derived quantities

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are - non dimensionalized in order to obtain the propeller performance

Propeller Performance Measurements at Low Reynolds Numbers

While much research has been carried out on propellers for full-scale aircraft, not much data exists on propellers applicable

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to the ever growing number of UAVs. Many of these UAVs use propellers that must operate in the low Reynolds number range of 50,000 to 100,000 based on the propeller chord at the 75% propeller-blade station. Tests were performed at the University of Illinois at Urbana ...

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UIUC Propeller Data Site - University Of Illinois

Propeller performance is critical to the success of these aircraft and guaranteed performance demands accurate experimental data. These propellers operate at low Reynolds numbers (between 30,000 and 300,000), rendering

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performance scaling from larger counterparts inaccurate.

Propeller Performance Measurement For Low Reynolds Number

It is for this reason that high pitch propellers, like a 10×9 or 12×12 often exhibit poor performance at low

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airspeeds. A plane equipped with such a propeller will often exhibit poor launch or take-off performance, and then come alive once the model is up to speed.

[PDF] Propeller Performance Data at Low Reynolds Numbers ...
Applications for Unmanned Aerial

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Vehicles (UAV) and, specifically, Micro Aerial Vehicles (MAV) are increasing. As is the case for all aircraft, propulsion plays a significant factor in overall vehicle performance. Most small UAV or MAV propellers are commercial, off-the-shelf products given their availability and low cost.

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PROPELLER PERFORMANCE
MEASUREMENT FOR LOW REYNOLDS
NUMBER UNMANNED AERIAL
VEHICLE APPLICATIONS A Thesis by
Monal Pankaj Merchant B.S., Wichita

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State University, 2004 Submitted to the
College of Engineering and the faculty of
the Graduate School of Wichita State
University in partial fulfillment of the
requirement for the degree of

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low Reynolds number ...

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Propellers are being used as propulsive devices since the early days of aviation. However, if they are not properly designed, they can have poor efficiency, especially at low Reynolds numbers environments such as the case of the high altitude

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Sensitivity of Pusher Propeller
Performance and Noise ...

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Propeller performance at low Reynolds

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numbers has become increasingly important in the design and performance prediction of unmanned air vehicles (UAVs). While propeller performance for full-scale airplanes has been well documented since the pioneering days of aviation, data on propellers at low Reynolds numbers has been scarce.

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Propeller performance measurement for low Reynolds number ...

Propeller Measurements Comparison -

UIUC and Ohio State University The

figures below show a comparison between

UIUC Volume 1 (V3) data and

measurements taken at Ohio State (Ref 5).

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The results show good agreement, especially considering that the thrust and torque measurement techniques differ.

Propeller performance measurement for low Reynolds-t05031 ...

The Ultimate MultiRotor Propeller - Where Performance Meets Efficiency. The

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MR Series is our newest Multi-Rotor Drone propeller series designed especially for VTOL (vertical take-off and landing) vehicles. Released in November 2016, the new propeller series combines some amazing features and capabilities setting it aside from the competition.

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numbers environments such as the case of
the high altitude

Practical modification for low Reynolds
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UpstreamWake Characteristics: An Experimental and ... the propeller performance measurements for different pylon ... evaluations showed that the computed sound pressure levels are underpredicted for the isolated configuration at low freestream velocities which is due ...

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PROPELLER PERFORMANCE TEST The test apparatus shown in Figure 1 is to be used in the open-throat wind tunnel to measure propeller performance. This test rig was designed and built here for the

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research work of a Ph.D. student. We will be measuring thrust, torque and rate of rotation.

Propeller Performance Measurement for Low Reynolds Number ...
Propeller Performance Data at Low Reynolds Numbers John B. Brandt ? and

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Michael S. Selig † University of Illinois at
Urbana-Champaign, Urb ana, IL 61801,
USA

Propeller Basics - Stefan V
PERFORMANCE MAPS. Propeller
performance maps are 3-dimensional
tables which list the efficiency of a

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propeller at various combinations of advance ratio and power loading for various altitude conditions. Most propeller manufacturers characterize the performance of each of their products with such a performance map.

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Low Reynolds Number UAV Applications.
... Post Stall Propeller Behavior at Low
Reynolds Numbers. Daniel Uhlig and
Michael Selig; 46th AIAA Aerospace
Sciences Meeting and Exhibit June 2012.
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