



## New York Libraries A Quarterly Devoted to the Interests of the Libraries of the State Volume 2

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By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 130 pages. Original publisher: Cleveland, Ohio : National Aeronautics and Space Administration, Glenn Research Center ; Hanover, MD : Available from NASA Center for Aerospace Information, 2001. OCLC Number: (OCoLC)50797115 Excerpt: . . . propellers performance by measuring the change in the free-stream airflow. This was the method Boeing used to estimate the performance of the propeller for the Condor, an unmanned high-altitude aircraft ( Hutchison, R. A. , and Turner, L. , Propulsion System Final MDS Report, L - 1613 - GWNL90 - 024. Internal Boeing Report, March 30, 1990 ). Ideally, thrust measurements would be taken over a range of operating conditions to get a complete picture of the propellers performance capabilities. It is probably not practical to install pressure instrumentation on the propeller blades, but propeller airfoil behavior can be inferred from thrust measurements. Strain or structural loading information can also be collected. This can be done by mounting strain gauges at various locations along the propeller blade. This provides information on the aeroelastic deflections as well. Knowing the structural loading of the propeller under operation can also help diagnose any performance problems. Test facilities....



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