



## Characterization of the Global Hawk Low Pressure Turbine First Rotor (Paperback)

By Timothy L Garmoe

Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The Air Force Research Laboratory, Propulsion Directorate at Wright Patterson Air Force Base has studied the performance of turbine blade geometries utilizing a large scale, low speed, drawdown wind tunnel in an effort to better understand gas turbine blade aerodynamics. Currently, the Air Force s Unmanned Aerial Vehicle (UAV) Global Hawk has been operated primarily at flight conditions other than the design point of its Allison AE3007H turbofan engine. This off design condition decreased the Reynolds number at the low pressure turbine causing losses in efficiency and loading. Two different blades were studied to maximize performance of the Global Hawk turbine. The first was an experimental, high turning angle blade designated the Pak-B and the second was based on the two dimensional mean diameter section of the first stage blade of the low pressure turbine used in the Global Hawk (GH1R). The Pak-B blade has been the subject of past research. The primary goals of this study were to validate the wind tunnel after previous upgrades, physically modify the test section to accept the Global Hawk blades, and to characterize the GH1R blades.



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