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COMPUTATIONAL STUDY OF THE IMPACT OF UNSTEADINESS ON THE AERODYNAMIC PERFORMANCE OF A VARIABLE-SPEED POWER TURBINE



Computational Study of the Impact of Unsteadiness on the Aerodynamic Performance of a Variable-Speed Power Turbine

NASA Technical Reports Server (NTRS), Gerard E. Welch

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The design-point and off-design performance of an embedded 1. 5-stage portion of a variable-speed power turbine (VSPT) was assessed using Reynolds-Averaged Navier-Stokes (RANS) analyses with mixing-planes and sector-periodic, unsteady RANS analyses. The VSPT provides one means by which to effect the nearly 50 percent main-rotor speed change required for the NASA Large Civil Tilt-Rotor (LCTR) application. The change in VSPT shaft-speed...

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