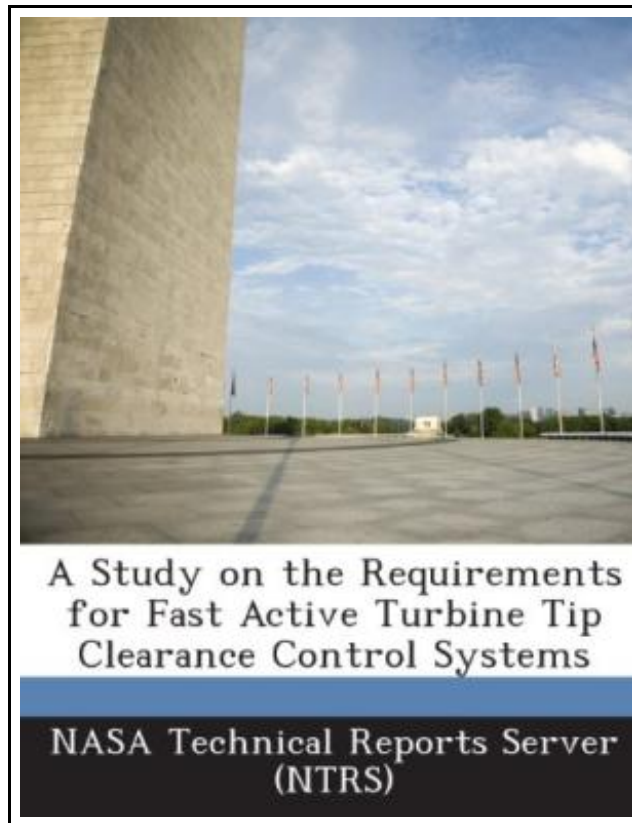


A Study on the Requirements for Fast Active Turbine Tip Clearance Control Systems



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)

A STUDY ON THE REQUIREMENTS FOR FAST ACTIVE TURBINE TIP CLEARANCE CONTROL SYSTEMS

[DOWNLOAD](#)

To download **A Study on the Requirements for Fast Active Turbine Tip Clearance Control Systems** eBook, please refer to the web link under and save the ebook or have accessibility to other information that are relevant to A STUDY ON THE REQUIREMENTS FOR FAST ACTIVE TURBINE TIP CLEARANCE CONTROL SYSTEMS ebook.

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This paper addresses the requirements of a control system for active turbine tip clearance control in a generic commercial turbofan engine through design and analysis. The control objective is to articulate the shroud in the high pressure turbine section in order to maintain a certain clearance set point given several possible engine transient events. The system must also exhibit reasonable robustness to modeling uncertainties and reasonable noise rejection properties. Two actuators were chosen to fulfill such a requirement, both of which possess different levels of technological readiness: electrohydraulic servovalves and piezoelectric stacks. Identification of design constraints, desired actuator parameters, and actuator limitations are addressed in depth; all of which are intimately tied with the hardware and controller design process. Analytical demonstrations of the performance and robustness characteristics of the two axisymmetric LQG clearance control systems are presented. Takeoff simulation results show that both actuators are capable of maintaining the clearance within acceptable bounds and demonstrate robustness to parameter uncertainty. The present model-based control strategy was employed to demonstrate the tradeoff between performance, control effort, and robustness and to implement optimal state estimation in a noisy engine environment with intent to eliminate ad hoc methods for designing reliable control systems. This item ships from La Vergne, TN. Paperback.



[Read A Study on the Requirements for Fast Active Turbine Tip Clearance Control Systems Online](#)



[Download PDF A Study on the Requirements for Fast Active Turbine Tip Clearance Control Systems](#)

See Also



[PDF] Animalogy: Animal Analogies

Follow the link beneath to read "Animalogy: Animal Analogies" PDF document.

[Read ePub »](#)



[PDF] Molly on the Shore, BFMS 1 Study score

Follow the link beneath to read "Molly on the Shore, BFMS 1 Study score" PDF document.

[Read ePub »](#)



[PDF] The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up

Follow the link beneath to read "The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up" PDF document.

[Read ePub »](#)



[PDF] Good Night, Zombie Scary Tales

Follow the link beneath to read "Good Night, Zombie Scary Tales" PDF document.

[Read ePub »](#)



[PDF] When Santa Claus Prayed

Follow the link beneath to read "When Santa Claus Prayed" PDF document.

[Read ePub »](#)



[PDF] God Loves You. Chester Blue

Follow the link beneath to read "God Loves You. Chester Blue" PDF document.

[Read ePub »](#)