



# Unsteady, Cooled Turbine Simulation Using a PC-Linux Analysis System

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## **Unsteady Cooled Turbine Simulation Using A Pc Linux Analysis System:**

**Unsteady, Cooled Turbine Simulation Using a Pc-Linux Analysis System** National Aeronautics and Space Administration (NASA), 2018-06-21 The fist stage of the high pressure turbine HPT of the GE90 engine was simulated with a three dimensional unsteady Navier Sokes solver MSU Turbo which uses source terms to simulate the cooling flows In addition to the solver its pre processor GUMBO and a post processing and visualization tool Turbomachinery Visual3 TV3 were run in a Linux environment to carry out the simulation and analysis The solver was run both with and without cooling The introduction of cooling flow on the blade surfaces case and hub and its effects on both rotor vane interaction as well the effects on the blades themselves were the principle motivations for this study The studies of the cooling flow show the large amount of unsteadiness in the turbine and the corresponding hot streak migration phenomenon This research on the GE90 turbomachinery has also led to a procedure for running unsteady cooled turbine analysis on commodity PC s running the Linux operating system List Michael G and Turner Mark G and Chen Jen Pimg and Remotigue Michael G and Veres Joseph P Glenn Research Center NASA TM 2004 212976 E 14449 AIAA Paper 2004 0370 *AIAA Aerospace Sciences Meeting and Exhibit, 42nd ,2004* **Aerospace America ,2003** *Government Reports Announcements & Index ,1996-02*

**Unsteady High Turbulence Effects on Turbine Blade Film Cooling Heat Transfer Performance Using a Transient Liquid Crystal Technique** National Aeronautics and Space Administration (NASA), 2018-06-27 Unsteady wake effect with and without trailing edge ejection on detailed heat transfer coefficient and film cooling effectiveness distributions is presented for a downstream film cooled gas turbine blade Tests were performed on a five blade linear cascade at an exit Reynolds number of  $5.3 \times 10^5$  Upstream unsteady wakes were simulated using a spoke wheel type wake generator Coolant blowing ratio was varied from 0.4 to 1.2 air and CO<sub>2</sub> were used as coolants to simulate different density ratios Surface heat transfer and film effectiveness distributions were obtained using a transient liquid crystal technique coolant temperature profiles were determined with a cold wire technique Results show that Nusselt numbers for a film cooled blade are much higher compared to a blade without film injection Unsteady wake slightly enhances Nusselt numbers but significantly reduces film effectiveness versus no wake cases Nusselt numbers increase only slightly but film cooling effectiveness increases significantly with increasing blowing ratio Higher density coolant CO<sub>2</sub> provides higher effectiveness at higher blowing ratios M 1.2 whereas lower density coolant Air provides higher 0 effectiveness at lower blowing ratios M 0.8 Trailing edge ejection generally has more effect on film effectiveness than on the heat transfer typically reducing film effectiveness and enhancing heat transfer Similar data is also presented for a film cooled cylindrical leading edge model Han J C and Ekkad S V and Du H and Teng S Glenn Research Center NAG3 1656 RTOP 714 01 4A Unsteady Flow Analysis in a High-work Turbine Stage with Two 3-D Navier Stokes Codes C. Hah, 1997 **TACT1, a Computer Program for the Transient Thermal Analysis of a Cooled Turbine Blade Or Vane Equipped with a Coolant Insert** Raymond E.

Gaugler,1979    **Steady and Unsteady Heat Transfer in a Film-Cooled Transonic Turbine Cascade** ,2000 The unsteady interaction of shock waves emerging from the trailing edge of modern turbine nozzle guide vanes and impinging on downstream rotor blades is modeled in a linear cascade The Reynolds number based on blade chord and exit conditions  $5 \times 10 \exp 6$  and the exit Mach number 1.2 are representative of modern engine operating conditions The relative motion of shocks and blades is simulated by sending a shock wave along of stationary shock waves The blade geometry is a generic version of modern high turning rotor blade with transonic exit conditions The blade is equipped with a showerhead film cooling scheme

**Computational Simulation and Analysis of Film Cooling for the Leading-edge Model of a Turbine Blade** ,2007 The application of interest is the cooling of turbine blades in large gas combustion engines where hot gases from the combustor cause thermal deterioration of the metal turbine blades A thin film of coolant flow buffers the hottest parts of the blade surface Heat transfer on a bluff body and subsequently a single hole cooling problem is solved numerically in two dimensions The flow is assumed to be incompressible and the laminar steady Navier Stokes equations are used to obtain the flow solution Results for the bluff body heat transfer agree very well with experimental data up to the separation point and are within 20% of the data thereafter The film cooling simulation yielded higher cooling effectiveness due in large part to the use of the two dimensional model which treats the hole as a slot with higher coolant mass Results from the simulations indicate that the Cobalt flow solver is capable of solving complex heat transfer problems

**The Unsteady Temperature Field in a Turbine Blade Cooling Channel** T. Arts,2001    *Three-dimensional, Unsteady, Parallel Simulation of a Multi-stage Turbine with Conjugate Heat Transfer* Daryl Yao-Wah Lee,2015 A computational fluid dynamics CFD procedure has been developed to predict the three dimensional unsteady flow through a multi stage axial turbine including the effects of heat transfer This procedure simultaneously solves the unsteady Reynolds averaged Navier Stokes equations for the flow along with the heat conduction equation for the solid Solution time is minimized through the use of multiple central processing units CPUs The blades of the multi stage turbine move in time and the flow interacts with adjacent vane stationary passages through the use of a parallel sliding grid inter blade row treatment Described are the techniques used to solve the governing equations the inter blade row treatment and the parallelization of the overall approach The uniqueness of this prediction method lies in the unsteady multi stage conjugate solution and the use of multiple combined cores The approach is validated for the High Impact Technology Turbine designed and tested at the Air Force Research Laboratory    **The Unsteady Temperature Field in a Turbine Blase Cooling Channel** Tony Arts,Von Karman Institute for Fluid Dynamics,2001    A Computer Program for the Transient Thermal Analysis of an Impingement Cooled Turbine Blade Raymond E. Gaugler,1977    Gas Turbine Cooling Modeling - Thermodynamic Analysis and Cycle Simulations Kristin Jordal,1999

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