

Journal of Turbomachinery

Publication Title History

January, 2010 | Volume 132 | Issue 1

Email Alerts | RSS 
BASIC
VIEW | EXPANDED VIEW

Research Papers

Influence of Thermodynamic Models in Two-Dimensional Flow Simulations of Turboexpanders

John Harinck, P. Colonna, A. Guardone and S. Rebay

J. Turbomach. 2009;132(1):011001-011001-17. doi:10.1115/1.3192146.

Turbine Efficiency Measurement System for the QinetiQ Turbine Test Facility

Paul F. Beard, Thomas Povey and Kamaljit S. Chana

J. Turbomach. 2009;132(1):011002-011002-13. doi:10.1115/1.3066271.

Experimental and Numerical Investigation of Impingement Cooling in a Combustor Liner Heat Shield

Sebastian Spring, Diane Lauffer, Bernhard Weigand and Matthias Hase

J. Turbomach. 2009;132(1):011003-011003-10. doi:10.1115/1.3103924.

Transition Mechanisms in Separation Bubbles Under Low- and Elevated-Freestream Turbulence

Brian R. McAuliffe and Metin I. Yaras

J. Turbomach. 2009;132(1):011004-011004-10. doi:10.1115/1.2812949.

Tip Clearance Effects on Inlet Hot Streak Migration Characteristics in High Pressure Stage of a Vaneless Counter-Rotating Turbine

Zhao Qingjun, Du Jianyi, Wang Huishe, Zhao Xiaolu and Xu Jianzhong

J. Turbomach. 2009;132(1):011005-011005-8. doi:10.1115/1.3103925.

Aerodynamic Asymmetry Analysis of Unsteady Flows in Turbomachinery

Kivanc Ekici, Robert E. Kielb and Kenneth C. Hall

J. Turbomach. 2009;132(1):011006-011006-11. doi:10.1115/1.3103922.

Separated Flow Measurements on a Highly Loaded Low-Pressure Turbine Airfoil

Ralph J. Volino

J. Turbomach. 2009;132(1):011007-011007-10. doi:10.1115/1.3104608.

Analytical and Numerical Simulations of the Two-Phase Flow Heat Transfer in the Vent and Scavenge Pipes of the CLEAN Engine Demonstrator

Michael Flourous

J. Turbomach. 2009;132(1):011008-011008-15. doi:10.1115/1.3068331.

Aerothermal Investigation of a Rib-Roughened Trailing Edge Channel With Crossing-Jets—Part I: Flow Field Analysis

Alessandro Armellini, Filippo Coletti, Tony Arts and Christophe Scholtes

J. Turbomach. 2009;132(1):011009-011009-9. doi:10.1115/1.3103929.

Experimental and Computational Fluid Dynamics Based Determination of Flutter Limits in Supersonic Space Turbines

Pieter Groth, Hans Mårtensson and Niklas Edin

J. Turbomach. 2009;132(1):011010-011010-8. doi:10.1115/1.3072491.

Optimization of Nonaxisymmetric Endwalls in Compressor S-Shaped Ducts

Edward M. J. Naylor, Cecilia Ortiz Dueñas, Robert J. Miller and Howard P. Hodson

J. Turbomach. 2009;132(1):011011-011011-10. doi:10.1115/1.3103927.

Design and Experimental Verification of Mistuning of a Supersonic Turbine Blisk

Pieter Groth, Hans Mårtensson and Clas Andersson

J. Turbomach. 2009;132(1):011012-011012-9. doi:10.1115/1.3072492.

Measurements of Secondary Losses in a Turbine Cascade With the Implementation of Nonaxisymmetric Endwall Contouring

D. C. Knezevici, S. A. Sjolander, T. J. Praisner, E. Allen-Bradley and E. A. Grover

J. Turbomach. 2009;132(1):011013-011013-10. doi:10.1115/1.3072520.

Investigation of Loss Generation in an Embedded Transonic Fan Stage at Several Gaps Using High-Fidelity, Time-Accurate Computational Fluid Dynamics

Michael G. List, Steven E. Gorrell and Mark G. Turner

J. Turbomach. 2009;132(1):011014-011014-7. doi:10.1115/1.3072522.

Web-Based, Interactive Laboratory Experiment in Turbomachine Aerodynamics

Nalin Navarathna, Vitalij Fedulov, Andrew Martin and Torsten Fransson

J. Turbomach. 2009;132(1):011015-011015-7. doi:10.1115/1.3106030.

Effects of Reynolds Number and Freestream Turbulence Intensity on the Unsteady Boundary Layer Development on an Ultra-High-Lift Low Pressure Turbine Airfoil

Xue Feng Zhang and Howard Hodson

J. Turbomach. 2009;132(1):011016-011016-10. doi:10.1115/1.3106031.

Letterbox Trailing Edge Heat Transfer: Effects of Blowing Rate, Reynolds Number, and External Turbulence on Heat Transfer and Film Cooling Effectiveness

N. J. Fiala, I. Jaswal and F. E. Ames

J. Turbomach. 2009;132(1):011017-011017-10. doi:10.1115/1.3106703.

An Experimental Study of Vane Clocking Effects on Embedded Compressor Stage Performance

Nicole L. Key, Patrick B. Lawless and Sanford Fleeter

J. Turbomach. 2009;132(1):011018-011018-10. doi:10.1115/1.3072714.

Three Dimensional Clocking Effects in a One and a Half Stage Transonic Turbine

O. Schennach, J. Woisetschläger, B. Paradiso, G. Persico and P. Gaetani

J. Turbomach. 2009;132(1):011019-011019-10. doi:10.1115/1.3072715.

Transition Prediction on Turbine Blade Profile With Intermittency Transport Equation

Wladyslaw Piotrowski, Witold Elsner and Stanislaw Drobnik

J. Turbomach. 2009;132(1):011020-011020-10. doi:10.1115/1.3072716

Technical Briefs

Application of Artificial Neural Networks in Investigations of Steam Turbine Cascades

Krzysztof Kosowski, Karol Tucki and Adrian Kosowski

J. Turbomach. 2009;132(1):014501-014501-5. doi:10.1115/1.3103923.