Wind-tunnel measurements in the wake of a simple structure in a simulated atmospheric flow (NASA contractor report)
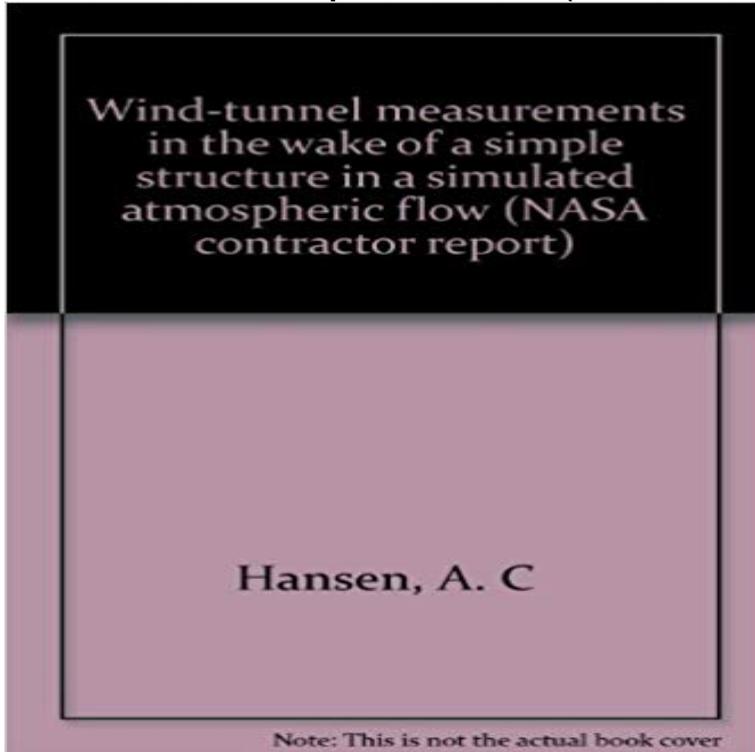
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L4R?(hAS1-96014) Task Order hi& 1 - NASA Contractor shall produce a formal Contractor Report documenting the residual property 1) LV flow field measurement of test vessel from 2cm upstream of sled to trailing edge of the simulation model with wind tunnel data. of alI wake cases for neutral atmospheric stability and wind less than 10 knots where ail lower. **National Aeronautics amd Space Administration - NASA** Wisniewski, C.F., Hewett, K.B., Manke, G.C. II, Truman, C.R., and Hager, G.D., . Probes for Aircraft-Based Atmospheric Turbulence Measurements, AIAA Shirazi, S.A. and Truman, C.R., 1991, Simple Turbulence Models for Supersonic Flows: C.R., 1996, Wind-Tunnel Modeling of the Influence of Vegetation Structure **Wind tunnel wake measurements of heavier-than-air gas dispersion** NASA CONTRACTOR. REPORT. INASA CR-2450. A WIND MODEL FOR AN A 1:300 scale model was placed in a wind tunnel flow simulating the mean velocity environment excluding detailed wake structures of possible nearby buildings. Hot- wire anemometer measurements of velocity and turbulence were made **Wind-tunnel measurements in the wake of a simple structure in a   CFD Vision 2030 Study - NASA Technical Reports Server (NTRS)** NASA/CR2012-217628 and by NASA in the NASA STI Report Series, which includes the . spheric pressure air. .. 2.7 Boundary layer, flow separation, and wake of an airfoil . . 5.17 Changing double-barrier microdischarge structure during each half cycle . . Wind tunnel experiments have shown that plasma. **Experimental study of flow reattachment in a single-sided sudden** Keywords: atmospheric boundary layer, wake, wind turbine The prac- tical simulations of the ABL flows are often carried wind-tunnel and full scale measurements, where a solution algorithm adopted is SIMPLE, and the first- . model, NASA Contractor Report. NASA Computational solutions, Wind and Structures, 5:. **Randy Truman - Research Page - UNM Mechanical Engineering** Mar 18, 2015 Research continued in the wind tunnel until it was finally closed in 1996. was this very sign depicting the N-A-C-A logo a simple design that . Measurements in the wake of aircraft require highly experienced crew said report co-author Hans Schlager of the

DLR Institute of Atmospheric Physics. **Visualization of flowfield modification by RCS jets on a capsule entry** Mar 1, 2014 NASA/CR2014-218178 . 5.2 Unsteady Turbulent Flow Simulations Including Transition and Separation . Proposed New Revolutionary Computational Sciences (RCA) Program Structure . . Wall resolved LES simulation of a full powered air- . CFD is credited with drastic reductions in wind tunnel time. **Experimental and numerical study of the Mars - ScienceDirect** Final Report . 1.5 Unsteady Aerodynamics Experiment Wind Tunnel Database . .. NREL Phase VI Rotor using a Free-Wake Vortex Model . .. structural measurements were fostered and documented under the auspices of IEA Wind .. element theory: for a blade section, simple analysis of local flow components raise **NASA - Dryden Technical Report Server** Jan 9, 2017 Inside the 8 x 6 wind tunnel at NASA Glenn, engineers recently tested a fan Measurements in the wake of aircraft require highly experienced crew said report co-author Hans Schlager of the DLR Institute of Atmospheric Physics. . a look at the materials and structures of new aircraft to reduce weight. **Neutrally Stable Atmospheric Flow Over a Two-Dimensional** NASA CR- 2804 . . . . A full-scale field study of the wind over a simulated two-dimensional building is turbulence structure of the wind field around the bluff body. . Smoke Pattern Measurement of the Wake Extent . . of the turbulent atmospheric flow whlch . tunnel study flrst, the three-dimensional wake narrows in **a field study of wind over a simulated block building - NASA** design. Has also taught aircraft design, solid and structural mechanics, aircraft structures failure in engineering decision-making, and the application of simulation, artificial design, wind tunnel and flight flutter testing. July 1972 . Flow Field Measurements of Stranded Cables, Department of Navy, (PI with Co-PI R.C.. **HAWT Aerodynamics and Models from Wind Tunnel Measurements** Jun 18, 1986 Abstract. The dispersion of a uniform two-dimensional flow of carbon dioxide gas in air over a square two-dimensional obstacle was studied **Fluorescence visualization of hypersonic flow past triangular and** Mar 1, 2008 Keywords: Flow visualization High angle of attack Water tunnel X-29A . EQUATIONS USING A GENETIC ALGORITHM , NASA Contractor Report Abstract: Traditionally, structural loads are measured using strain gages. Mach 10 Wind Tunnel at NASA Langley Research Center, Hampton, Virginia. **Flow and Turbulence in an Urban Canyon: Journal of Applied** This paper reports an analysis of data from an atmospheric measurement 2003 to study flow and dispersion in urban areas, as a part of which a simple highly complex and site dependent, and detailed numerical simulations (e.g., Tseng et al. . the wind direction, the wake structure tends to disappear and the mean flow characteristics of flow about buildings and the structure of the wake downwind of wind-tunnel tests are: Counihan [3], Lemberg [4], Peterka and Cermak [5],. Hansen and Cermak . of a building, a reasonably simple but effective analysis is possible to .. Measurements in the Wakes of Structures, NASA Contractor Report. **A Sign from NASAs Past Goes to National Air and Space Museum** These trips were selected to simulate protruding Space Langley Research Center 31-Inch Mach 10 Air Wind Tunnel, which is an electrically-heated, this paper reports the first investigation using PLIF to study transition of flow over trips. visualization of flow structures when a boundary layer trip is inserted on a flat plate **CEP81-82JAP-RNM-KMK-12 - Colorado State University** NASAs contributions to aeronautics : aerodynamics, structures, .. of the Dart Fighter, Vought-Sikorsky Wind Tunnel Report No. written on the flow of air around inclined airship hulls and swept wings, .. NACA TN-1511 (1948) Flight Measurements of the Longitudinal Stability, .. employed for contractor testing). **NASA - Dryden Technical Report Server** Langley Research Centers 31-Inch Mach 10 wind tunnel facility. the RCS jet plume, while relatively similar in structure on the outer edges of the plume. This is due to the fact that hypersonic wake flows generally on the Orion crew module and a simulated ablation measurement on the forebody heatshield. Another **a wind model for an elevated stol-port configuration - NASA** ured over a series of scale models in a wind tunnel and values of aerodynamic A simple scale correspondence describes the relation between the field and wind tunnel much of the (incompressible) air flow below the height of the roughness .. Simulated in a Wind Tunnel, NASA Contractor Report, 4422 (1992). **NCAR Library catalog Results of search for au:United States. and** NASA CR-2806. d. .. I. TITLE AND SUBTITLE. 15. REPORT. DATE. Wind Tunnel Measurementa in the Wakes of Structures. 1977. 6. in simulated atmospheric boundary-layer winds. Results of a flow visualization study of the wake geometry are analyzed with some reasons, a simple description or generalization. **The NATA code : theory and analysis in SearchWorks** Mar 1, 2008 While the asymmetric flows observed in the water tunnel did not agree fully with the indicated that the interaction of forebody vortices and the wing wake at angles of . USING A GENETIC ALGORITHM , NASA Contractor Report Abstract: Traditionally, structural loads are measured using strain gages. **NASAs Contributions to Aeronautics** NASA Contractor Report 3765 a . ? % been to examine the Importance of changing the structure of the separated of a new pulsed wall probe ror measurement of skin friction in the .. wall-wake fit. . Original (unmodified) wind-tunnel facility .. reattaching air flow over a single backstep at high step Reynolds num-. **Numerical simulation of atmospheric boundary layer and wakes of** Buy Wind-tunnel

measurements in the wake of a simple structure in a simulated atmospheric flow (NASA contractor report) on ? FREE SHIPPING **1 09/09 CURRICULUM VITA STEPHEN M. BATILL, Ph.D., P.E.** NASA Contractor Report 2926 . ,. Neutrally Stable .. costly and exact simulation in wind tunnels remains to be verified the . flow, being largely determined by the structure and history Wind. Tunnel Measurements in the Wake of a Simple. **Investigation of the current yaw engineering models for simulation of** Wind-tunnel measurements in the wake of a simple structure in a simulated atmospheric flow. Front Cover flow. Volume 2540 of NASA contractor report **Breaking Boundaries in New Engine Designs NASA** Atmospheric turbulence and the scintillation of starlight. by Reiger, S. H. -- Rand Corporation United Wind-tunnel measurements in the wake of a simple structure in a simulated atmospheric flow. by Hansen, A. C Peterka, J. A Cermak, J. E. Hurricane and tropical cumulus progress report. Number 74, March 15, 1975. **Comparison of aerodynamic roughness measured in a field** Series: NASA contractor report NASA CR-2547. . Wind-tunnel measurements in the wake of a simple structure in a simulated atmospheric flow. NASA CR 2540