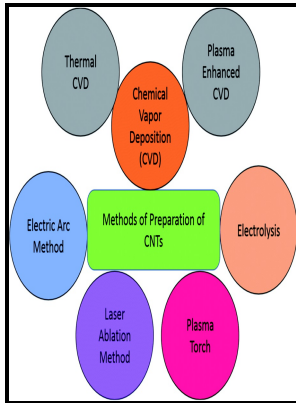# Nonequilibrium expansion flow of dissociated oxygen around a corner

Institute of Aerophysics - Near

Description: -
-
Shock waves
Nonequilibrium flow
Dissociated oxygen flowNonequilibrium expansion flow of dissociated oxygen around a corner
-
UTIA report -- no.91Nonequilibrium expansion flow of dissociated oxygen around a corner
Notes: Includes bibliographical references.
This edition was published in 1963

Filesize: 25.41 MB

Tags: #Supersonic #expansion #on #non

Progress in Aeronautical Sciences

Computed flowfield contours of the IHF 9-inch nozzle flow and test box with the 20° wedge model: 11 11 Figure 9 shows the computed Mach number and total enthalpy contours of the IHF 9-inch nozzle flow near the nozzle exit and test box with the 20° wedge model at IHF 335 condition 3. If you decide to participate, a new browser tab will open so you can complete the survey after you have completed your visit to this website.

Thermal analysis of hypersonic flows of carbon dioxide and air in thermodynamic non

Symbols color-coded with the contour colors are the test data from IHF 335 Run 22-1. Note that the survey data were obtained in separate arc-jet runs runs 6-2, 7-2, 8-2 and 9-2 but at the same nominal facility condition of run 6-2 in Table 1.

Combined Effects of Thermal Non

Arc-Jet Facility and Tests The Interaction Heating Facility IHF at NASA ARC consists of a constricted arc heater, a 60-MW DC power supply, interchangeable conical and semi-elliptical nozzles, a test chamber, and supplementary systems including steam ejector vacuum system, cooling-water system and data acquisition system. Yoshinaga T, Tate A, Watanabe M, Shimoda T 1996 Orbital re-entry experiment vehicle ground and flight dynamic test results comparison. Computed flowfield contours near the nozzle exit and test box, and four axial locations for the survey probes.

Over forty years of continuous research at UTIAS on nonstationary flows and shock waves

Computed surface temperature contours of the 20° wedge model with the RCG-coated tile calibration plate. Again, computed pressure and heat flux values are in good agreement with the measurements. A second order solution for the non-equilibrium flow of a relaxing gas in a plane expansion.

Supersonic expansion on non

Similarly, Table 4 gives a summary of the facility conditions, calibration data, and CFD estimates for IHF 335 condition 2. Numerical simulations of carbon dioxide and air flows are presented for the Mars Pathfinder experimental capsule configuration under hypersonic conditions.

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