

# Numerical calculation of the low Reynolds number flow over a blunt wedge with rearward facing step

## Aerospace Research Laboratories - Reynolds Number Calculation



Description: -

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ARL 67-0151Numerical calculation of the low Reynolds number flow over a blunt wedge with rearward facing step

Notes: AD660575.

This edition was published in 1967



Filesize: 17.45 MB

Tags: #Numerical #study #of #laminar #nacelles: #natural #and #hybrid #laminar #flow #designs, #International #Journal #of #Engineering #Systems #Modelling #and #Simulation

### Flow structure and unsteady fluctuation with separation over a two

As a first attempt to assess the interaction of the cooling fan with its system environment, the proposed numerical model is expanded to model the interaction of the fan blades with the adjacent stators or support arms. Locate the following settings: Time control flag Time step and solution control Integrator and solver type 3. Computations have been made for a number of geometrical configurations, including, amongst others, a rectangular block as well as triangular and semi-circular obstructions.

### Prediction of the Low

To validate the present calculations in solving the RTE by DOM using the block-off method, there is not any theoretical result in combined convection and radiation heat transfer over an inclined forward facing step FFS. Distribution of total Nusselt number along the bottom wall on the centerline is represented in for three different values of the RC parameter. Journal of Turbulence, 2007, 8: 1—30.

### Numerical solution of the turbulent supersonic flow over a backward facing step

Also, the step inclination angle indicated by is considered to be  $45^\circ$  in all subsequent calculations. The maximum free stream Mach number was 3.

### Analysis of Combined Radiation and Forced Convection Heat Transfer in 3D Laminar Flow over an Inclined Forward Facing Step

Also, it should be mentioned that in combined convection-radiation heat transfer, total Nusselt number has a peak value before the FFS. Taking away the hot fluid and carrying the cold fluid into the floor wall, which is caused by periodic instability, have positive effects on heat transfer enhancement. Other velocity components V and W are set to zero at the inlet, while the fluid is assumed to have a uniform temperature at this section.

### Direct Numerical Simulation of Flow over a Swept Rearward

In a table, compare the following values from the 3 cases. Biography: Fang-fang Wang 1988- , Male, Ph. The extreme values of scattering albedo,  
i.

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