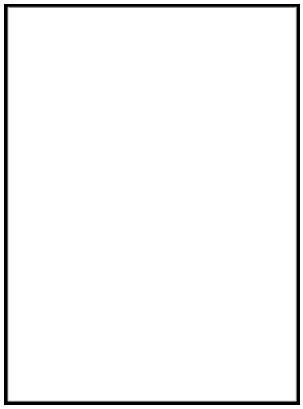
Numerical calculation of the low Reynolds number flow over a blunt wedge with rearward facing step

Aerospace Research Laboratories - Numerical study of laminar nacelles: natural and hybrid laminar flow designs, International Journal of Engineering Systems Modelling and Simulation



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

Tags: #Flow #over #a #backward #facing #step #using #Converge #CFD. #: #Skill

Prediction of the Low

International Journal for Numerical Methods in Fluids, 2010, 64 7 : 777—792. In this study, the phase function is equal to unity because the assumption of isotropic scattering medium.

Numerical study of low

Show velocity and pressure contours 3. The results are presented graphically in. The calculations also show that a lip shock is formed to match the flow conditions at the step corner.

A numerical investigation of laminar flow over a backward facing inclined step

Distribution of total Nusselt number along the bottom wall on the centerline is represented in for three different values of the RC parameter. The of the pipe and the Reynolds number can be used to plot the friction factor chart.

Direct Numerical Simulation of Flow over a Swept Rearward

Kaiktsis L, Karniadakis GE, Orszag SA 1996 Unsteadiness and convective instabilities in a two-dimensional flow over a backward-facing step. This figure which is in consistence with the previous figure, clearly presents that how total Nusselt number affected by the variation of RC parameter. Finite Volume Method FVM : The finite volume method FVM is a method for representing and evaluating PDE in the form of algebraic equations.

Direct Numerical Simulation of Flow over a Swept Rearward

The Main Physical Quantities The main physical quantities of interest in heat transfer study are the mean bulk temperature and Nusselt number.

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