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Tutorial
This CFD ANSYS
tutorial
demonstrates how

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to mesh a 2D object and carry out a supersonic CFD simulation. The objective of this simulation is to capture the oblique shock wave at an expected angle from the horizontal line of the object. I used an online

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tool to
calculate the
expected angle
of the shock
wave and the
downstream flow
Mach number.

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- Pre-Analysis &

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Flow in a

Nozzle. Created

using ANSYS

13.0. Updated to

work with later

versions. This

tutorial has

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videos. If you
are in a
computer lab,
make sure to
have head
phones. ...

3D Supersonic
Flow Yielding
Uniform Pressure
Ansys Fluent
Tutorial 2
Supersonic Flow
Over a Wedge

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Ahmed M Nagib
Elmekawy, PhD,
P.E. Problem
Specification A
uniform
supersonic
stream
encounters a
wedge with a
half-angle of 15
degrees as shown
in the figure
below. The
stream is at the

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following
conditions:
Using FLUENT,
calculate the
Mach Number,
static and total
pressure behind
the

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Over a Wedge -
drahmednagib.com
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community is a public forum for authorized ANSYS Academic product users to share ideas and ask questions. ...

Periodic Flow and Heat Transfer

Tutorial -
Fluent ...

Latest By oklara
10 January 2018.

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Moderator

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Supersonic
compressible
flow CFD

tutorial Latest

By Raef.Kobeissi

05 ...

ANSYS FLUENT

Page 16/38

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12.0 Tutorial
Guide - Step 6:
Boundary
Conditions
the oncoming
flow to subsonic
speeds for
combustion, a
scramjet
(supersonic
combustion
ramjet) is used
in place of a
ramjet. This

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paper is aimed at modeling the supersonic flow inside Scramjet engine using the Computational Fluid Dynamics ANSYS Fluent. The purpose of this test is to validate FLUENT's ability to predict reflecting shock

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Discussions

Tagged With: supe
rsonic-flow

Otherwise, in an
incompressible
flow calculation
the Supersonic/
nitial Gauge

Pressure input
will be ignored
by ANSYS FLUENT.
In this problem

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the velocity
will be
initialized
based on the
difference
between these
two values. (c)
Retain the
default
selection of
Normal to
Boundary from
the Direction
Specification

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Method drop-down
list.

Tutorial |
Supersonic Flow
CFD Simulation
of a Space
Reentry Vehicle
with ANSYS CFX
I'm trying to
run supersonic
flow simulations
around a 3D
rocket body. I'm

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simulating a quarter of the geometry with symmetry applied on the side faces. When I have run the simulation with 100 iterations, my output is showing uniform pressure nearly everywhere throughout the

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flow without
even a hint of a
shock wave or
skin friction.

SPC 407
Supersonic &
Hypersonic Fluid
Dynamics Ansys

...

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Geometry;

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Supersonic Flow
Over a Wedge -
Mesh; Supersonic
Flow Over a
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Setup; ... This
tutorial has ...

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Sukhoi /
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Supersonic Flow
Over a Wedge -
Geometry. Skip
to end of
banner. ...

Note: There is
an updated
tutorial using
ANSYS SpaceClaim
19.2 located
here. Set Up.
First, we need
to specify that
the geometry is

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2-dimensional.

Right click the
Geometry box ...

(ANSYS or
FLUENT) Learning
Modules. No
labels Overview

...

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This step by step CFD simulation tutorial shows how to analyze supersonic flow around a space reentry vehicle (SpaceX's Dragon) using ANSYS CFX. To download mesh files required for this

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Supersonic
compressible
flow CFD
tutorial

This tutorial
leads you
through the
steps for
generating a
mesh in GAMBIT
for a wedge
geometry. The

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generated mesh
can then be read
into FLUENT for
fluid flow
simulation. In
an external flow
such as that
over a wedge, we
need to define a
farfield
boundary and
mesh the region
between the
wedge and the

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farfield
boundary.

FLUENT -
Supersonic Flow
Over a Wedge-
Step 1 - SimCafe

...
structures of
supersonic jets
for a
comprehensive
exhaust flow
analysis

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including jet expansion, mixing, and associated jet noise. This tutorial discusses the pressure-based coupled algorithm implemented in the general purpose CFD code ANSYS Fluent,

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and evaluates
its
effectiveness in
solving
axisymmetric
problems of
steady and

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Flow in a Nozzle
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Dashboard
Air flow

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analysis on a
racing car using
Ansys Fluent
tutorial Must
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Duration: ...

ANSYS CFX -
Tutorial

Centrifugal Pump

... Freezing

supersonic flow

by LED based

Schlieren

imaging ...

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List of learning
modules. The
following
tutorials show
how to solve
selected fluid
flow problems
using ANSYS
Fluent. The

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tutorial topics
are drawn from
Cornell
University
courses, the
Prantil et al
textbook,
student/research
projects etc. If
a tutorial is
from a course,
the relevant
course number is
indicated below.

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