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SPC 407 Supersonic & Hypersonic Fluid Dynamics Ansys Fluent Tutorial 1. Compressible Flow in a Nozzle. Ahmed M Nagib Elmekawy, PhD, P.E. Problem Specification. Consider air flowing at high-speed through a convergent-divergent nozzle having a circular cross-sectional area, A, that varies with axial distance from the throat, x, according to the formula A = 0.1 + x2; -0.5 < x < 0.5 where Ais in square meters and xis in meters.

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Using FLUENT, calculate the Mach Number, static and total pressure behind the oblique shock that will be formed. Also, calculate the shock angle, pressure coefficient along the wedge and drag coefficient. Compare the FLUENT results with the corresponding analytical results. Go to Step 1: Pre-Analysis & Start-Up

~~FLUENT - Supersonic Flow Over a Wedge - SimCafe - Dashboard~~
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Step 1: Create Geometry in GAMBIT. This tutorial leads you through the steps for generating a mesh in GAMBIT for a wedge geometry. The 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 farfield boundary.

~~FLUENT - Supersonic Flow Over a Wedge- Step 1 - SimCafe ...~~
The following tutorials show how to solve selected fluid flow problems using ANSYS Fluent. The 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. All tutorials have a common structure and use the same high-level steps starting with Pre-Analysis and ending with Verification and Validation.

~~FLUENT Learning Modules - SimCafe - Dashboard~~
C-D Nozzle is an efficient component,which can drive a missile,rockets,Jet engine exhaust to reach super sonic speeds from subsonic condition.

~~Ansys WorkBench - Fluent C-D Nozzle tutorial - YouTube~~
When the project updates, double-click Setup to open FLUENT. Initial Settings. Double-Click Setup in the Workbench Project Page. When the FLUENT Launcher appears, choose "Double Precision" under "Options" and then click OK as shown below.The Double Precision option is used to select the double-precision solver. In the double-precision solver, each floating point number is represented using 64 bits in contrast to the single-precision solver which uses 32 bits.

~~Supersonic Flow Over a Wedge - Physics Setup - SimCafe ...~~
Create a FLUENT template in the Project Schematic window . 1. This tutorial assumes that ANSYS Workbench is running but no projects are open. 2. Under . View . make sure that " Toolbox " , " Toolbox Customization " and " Project Schematic " all have check marks next to them. Check marks can be inserted by placing the cursor over the menu item and LMB.

~~ANSYS Workbench Tutorial – Flow Over an Airfoil~~
First, in the Outline window, click to show the Mesh menu in the menu bar. In the Mesh Menu, select Mesh Control > Face Meshing. In the Graphics window, hold down CRTL, and select both domain faces to select it, then in the Details window, click Geometry > Apply.

~~Supersonic Flow Over a Wedge - Mesh - SimCafe - Dashboard~~
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