VizFlow

FOR HIGH-FIDELITY FLUID FLOW MODELING

Features

VizFlow software is a high-fidelity analysis tool for fluid flow as a stand-alone solver or coupling fluid flow with other OverViz simulation packages. Features of VizFlow include:

- 1-D, 2-D (planar/axisymmetric) and 3-D problems
- Variety of fluid types (incompressible, compressible, calorically perfect gases, thermally perfect gases, equilibrium reactive flows, etc.)
- Automatic generation of equilibrium flow properties
- Conjugate heat transfer with flow+solid domains
- Moving body dynamics with flow domain
- Coupling to other solvers
- Parallel computing

Applications

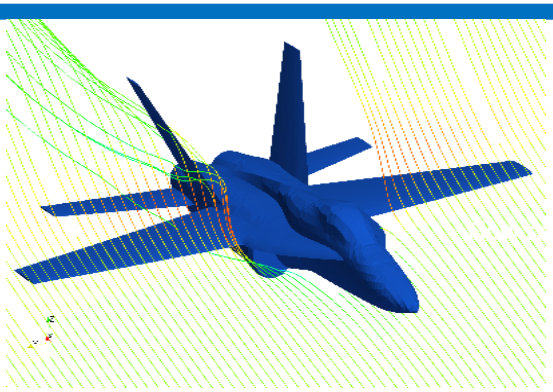
Typical application areas where VizFlow can be used are:

- General flow field analysis
- Chemical vapor deposition
- Low-speed and high speed aerodynamic flows
- Materials processing

Industries served

A variety of different industries use VizFlow capability including:

- Semiconductor manufacturing
- Electrical systems
- Automotive Industry
- Aerospace Industry
- Oil and gas
- Manufacturing



Example of a fluid flow simulation around the YF-17

SOLUTIONS FOR YOUR MULTI-PHYSICS SIMULATION NEEDS

VizFlow is one of several simulation packages that are part of the OverViz multiphysics simulation suite. List of simulation packages in OverViz include:

- **VizGlow** Non-equilibrium Plasma simulator
- **VizSpark** Thermal (arc) Plasma simulator
- **VizEM** Electromagnetics simulator
- **VizFlow** Fluid flow simulator
- **VizGrain** Particle simulator
- **VizMesh** Geometry and unstructured meshing
- **ChemZone** Zero-dimensional reactor simulator

We also provide the following services:

- Modeling and simulation services: work with customers to define problem and setup model
- Calibration of models for customer-specific problems
- Training and support to clients using software tools

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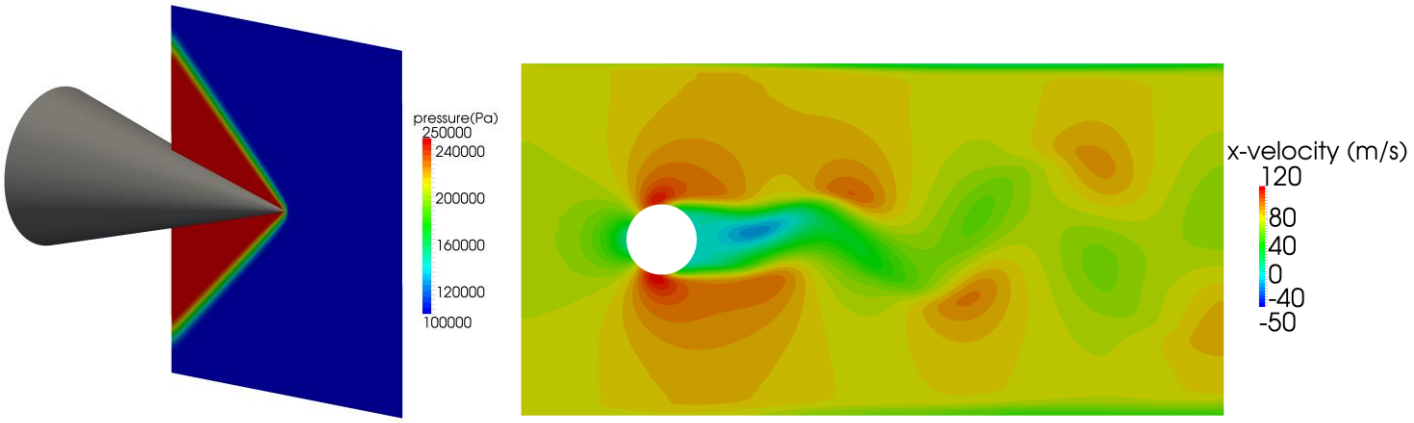
Analysis and Design through High-Fidelity Simulations

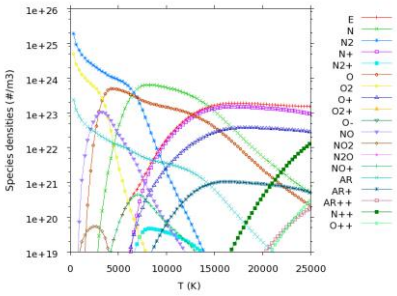
VizFlow

SOLUTIONS FOR HIGH-FIDELITY PLASMA SIMULATIONS

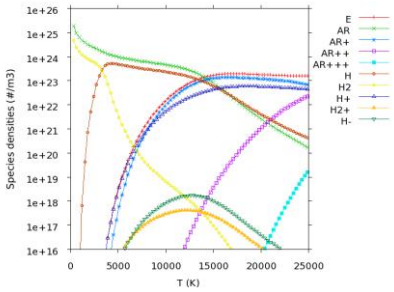
Analysis and simulation of high speed and low speed flow fields



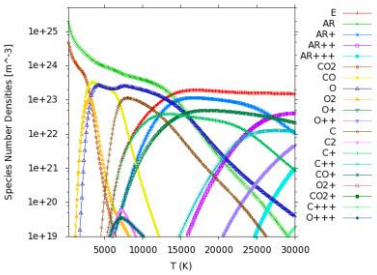
Thermodynamic and Transport Property Generation for Real Gases



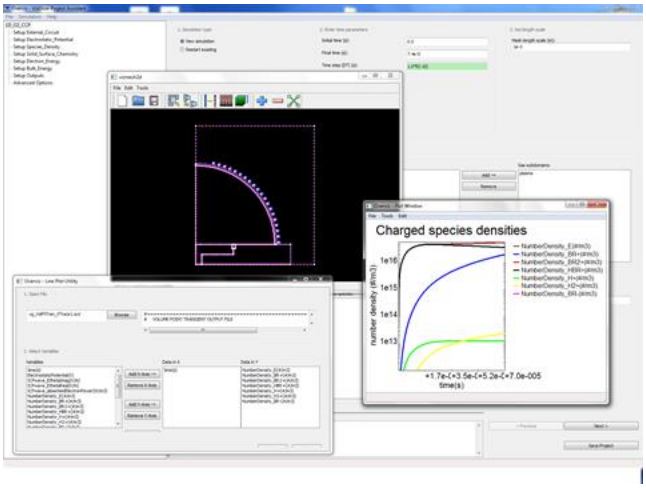
air



argon-hydrogen



argon-carbon dioxide



VizFlow is supported by an intuitive Graphical User Interface with Pre- and Post- processing capability

For more information, please contact us:

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