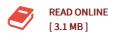




Airshow 1.0 Cfd Software Users Guide (Paperback)

By Stanley R Mohler

Bibliogov, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book
***** Print on Demand *****. AirShow is visualization post-processing software for Computational
Fluid Dynamics (CFD). Upon reading binary PLOT3D grid and solution files into AirShow, the
engineer can quickly see how hundreds of complex 3-D structured blocks are arranged and
numbered. Additionally, chosen grid planes can be displayed and colored according to various
aerodynamic flow quantities such as Mach number and pressure. The user may interactively rotate
and translate the graphical objects using the mouse. The software source code was written in crossplatform Java, C++, and OpenGL, and runs on Unix, Linux, and Windows. The graphical user
interface (GUI) was written using Java Swing. Java also provides multiple synchronized threads.
The Java Native Interface (JNI) provides a bridge between the Java code and the C++ code where
the PLOT3D files are read, the OpenGL graphics are rendered, and numerical calculations are
performed. AirShow is easy to learn and simple to use. The source code is available for free from the
NASA Technology Transfer and Partnership Office.



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