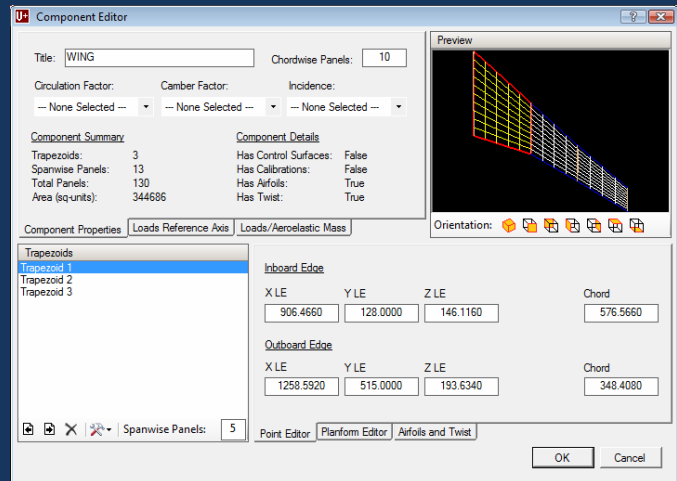
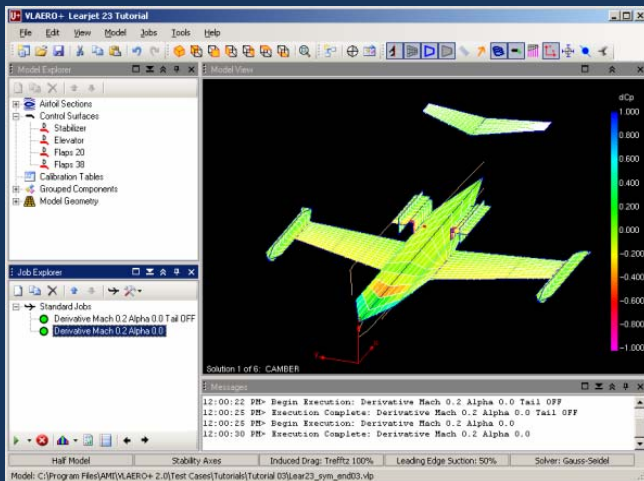




Analytical Methods, Inc.

CFD Software and Consulting Services – Since 1971

Visit our booth at the AIAA
Aerospace Sciences Meeting in
Reno: 7-10 January 2008



Analytical Methods, Inc. (AMI) is proud to announce the release of VLAERO+ 2.0, an exciting new tool for aerodynamic analysis of subsonic and supersonic configurations. VLAERO+ is designed for rapid parametric evaluation of aerodynamics, stability and control, static aeroelasticity, inertial and aerodynamic loads. Whether used as a predictive tool or as a calibrated aerodynamic model, VLAERO+ is a valuable asset from preliminary design through detailed design and service. VLAERO+ incorporates a robust vortex-lattice solver with a simple yet functional user interface.

To obtain a demo license or to request a quote, visit <http://www.am-inc.com>



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VLAERO+ is User Friendly

VLAERO+ is designed to provide maximum functionality with minimum user effort. The element-based user interface is easy to master and users are often able to produce solutions in minutes. Even with the ease of use, VLAERO+ remains highly functional. The online documentation includes several tutorials which demonstrate all of the features of VLAERO+.

VLAERO+ is Highly Functional

The embedded solver has been an industry leader for decades. The accuracy of the method has been demonstrated through countless wind tunnel and flight tests.

- Basic Functionality
 - Linear aerodynamic coefficients in stability and body axes ($C_L, C_D, C_m, C_Y, C_l, C_n$)
 - Stability and control derivative estimation (α, β, p, q, r , control deflections)
 - Trim for level flight and trim in a maneuver
 - Integrated component and control surface loads along an arbitrary reference axis
 - Inertial and aerodynamic loads calculation
 - Tail surface and control sizing
 - Integrated beam model for static aeroelastic coupling
 - Prandtl-Glauert compressibility model
 - Leading edge suction model and Trefftz plane induced drag calculation
 - Supersonic influence calculation for slender configurations
 - Advanced calibration methods for targeting results at multiple conditions in a single model
- Analysis Modules
 - Eigen-mode Dynamic Stability Analysis (expected release 2008)
 - Simulation Analysis (expected release 2008)

VLAERO+ is Used by Industry

VLAERO+ is in use at companies and Universities throughout the world. The following list represents a small sample of current VLAERO+ users: Boeing, Gulfstream, Scaled Composites, General Atomics, more ...

† VLAERO+ runs under the Windows XP/2000/2003/Vista operating system. Technical support and on-site training are available for a fee. For floating licenses, a network license server running Windows XP/2000/2003/Vista is required to serve licenses to remote instances of VLAERO+ over a network. The AMI License Manager is a standalone service employing the FLEXnet™ architecture.