

DARcorporation News

April 2018

NEW Software Releases!

Advanced Aircraft Analysis (AAA) 4.0 has over 290 new features and over 60 aircraft examples!



- Stick Force Trim modules have been added to allow for airplane trimming by stick force and generation of stick force gradients.
- Airfoil aerodynamic characteristics may be defined. Lifting surface aerodynamic characteristics are calculated based on airfoil aerodynamics and geometry.
- The Useful Load Class II Center of Gravity is now calculated based on individual components.
- The Configuration toolbar has been expanded to allow for a more defined configuration.
- Propulsion units are tiltable to simulate VTOL vehicles.
- Improved user-friendliness.

[List of New Features & Enhancements](#) - [Request Software & Upgrade Pricing](#)

FlightStream® 11.0 has many new features that include:



- Non-linear aerodynamics including $C_{L_{max}}$ and stall prediction through the simulation of flow separation on the geometry.
- Computation of viscous loads for transitional flows to more accurately simulate laminar/turbulent boundary layer transition.
- Addition of higher-order compressibility models to better capture pressure distributions at high subsonic Mach numbers.
- Enhanced options for freestream velocity distributions including a shear velocity distribution.

[List of New Features & Enhancements](#) - [Request Software Pricing](#)

Upcoming Webinar:



History of Airplane Design Live Webinar

May 9, 2018, 11:00 AM - 12:00 PM CDT US

Instructor: [Dr. Jan Roskam](#)

Description: Dr. Jan Roskam continues the informative History of Airplane Design webinar series, exploring the evolution of five now defunct British airplane manufacturing companies. Companies include Gloster, Blackburn, Hawker, Percival and Bristol.

[Register](#)



COLORADO CONVENTION CENTER | DENVER
April 30–May 3 | Educational Program
May 1–3 | Exhibits

We will be featuring our **Propeller, Ducted Fan & UAV/Drone Design Services** at our XPONENTIAL 2018 booth, [#4226](#) (adjacent to NKOTB Hub near Helicopter Association booth). Come visit us and talk about UAV propeller and tiltwing/tiltrotor proprotor design impact on UAV performance or UAVs in general. The following link will provide you a complimentary XPO Hall Pass.

[Register now for your complementary XPO Hall Pass.](#)

The DARcorporation Advantage

Experience in the design, detailed analysis and building of prototypes gives DARcorporation a unique advantage over other companies, since we can go from initial design all the way through full size prototype manufacturing and flight testing. We will work with you to design and optimize your aircraft for performance, manufacturability and cost. Let us know how we can support your projects!



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