

FOR IMMEDIATE RELEASE

AeroTex UK Leverages VABS for Simulation of Composite Propellers and Rotor Blades

West Jordan, Utah (USA), July 9, 2018- [AnalySwift, LLC](#), a provider of efficient high-fidelity modeling software for composites and other advanced materials, announced today that AeroTex UK has licensed its powerful VABS software for the simulation of composite propellers, rotor blades, and other slender structures.

Located in the United Kingdom, AeroTex UK has extensive experience in the area of structural dynamics, including building and analyzing complex structural models. The aerospace company specializes in working with rotorcraft and rotor blades, including propellers.

“At AeroTex we undertake designs on complex aerospace structures using multi-disciplinary analyses, seeking to minimize loads and vibration and improve aeroelastic stability margins,” said Colin Hatch, lead structural consultant at AeroTex UK. “VABS gives us a potent tool in our armoury, enabling us to create models of rotor blades and propellers as equivalent beam structures with faster design cycles compared with large 3D finite element models. VABS allows us to have a refined model in the structure cross-section giving us the ability to model individual composite plies without compromising the design cycle time.”

“We are very pleased to have our VABS software selected by AeroTex to help meet their sectional analysis needs for composite propellers and rotor blades,” said Allan Wood, president & CEO of AnalySwift. “They are heavily involved in the rotorcraft area, which coincides nicely with VABS. As a versatile cross sectional analysis tool, VABS delivers high-fidelity results early on, reduces design cycle, and shortens time to market.”

“The [VABS program](#) is a uniquely powerful tool for modeling composite blades and other slender structures, commonly called beams,” said Dr. Wenbin Yu, CTO of AnalySwift. “VABS reduces analysis time from hours to seconds by quickly and easily achieving the accuracy of detailed 3D FEA with the efficiency of simple engineering models. With VABS, engineers can calculate the most accurate, complete set of sectional properties such as torsional stiffness, shear stiffness, shear center for composite beams made with arbitrary cross-section and arbitrary material. It can also predict accurate detailed stress distribution for composite beams, which are usually not possible with 3D FEA for realistic composite structures.”

With continuous development spanning nearly 30 years for performance and robustness, VABS is used in the aerospace and wind energy industries for modeling complex composite rotor blades, wing



section design, and simulating other slender composite structures. Developed at Georgia Institute of Technology (Georgia Tech) and Utah State University, VABS is available through AnalySwift at analyswift.com.

About AnalySwift

AnalySwift, LLC is a provider of composite simulation software, which enables an unprecedented combination of efficiency and accuracy, including multiphysics structural and micromechanics modeling. Drawing on cutting edge university technology, AnalySwift's powerful solutions provide customers a competitive advantage through drastic reductions in engineering time, virtual testing earlier in the design process, and handling of more complex composite structures. Our technologies deliver the accuracy of detailed 3D FEA at the efficiency of simple engineering models, cutting analysis time by orders of magnitude. SwiftComp is licensed from Purdue Research Foundation. VABS is licensed from Utah State University, and Georgia Institute of Technology. AnalySwift is a member of [the Institute for Advanced Composites Manufacturing Innovation \(IACMI\)](http://theinstitute.org). Find out more at analyswift.com.

About AeroTex UK

AeroTex UK is an aerospace consultancy specializing in structural design/optimization, dynamics, aeroelastics and in-flight icing. Internationally recognized, AeroTex undertakes work for a diverse range of customers, including aircraft primes, Tier 1 suppliers and research organizations. AeroTex's structural dynamics, aeroelastics and vibration capability has over 50 years of combined experience ranging from fixed wing to satellite structures and it is especially experienced with rotorcraft. The company has developed a number of complex numerical simulation codes for their customers and their AeroTex dynamics and structures consultants are experts in finite element analysis (FEA). Find out more at aerotex.co.uk.

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