

Simulayt News

March 2010

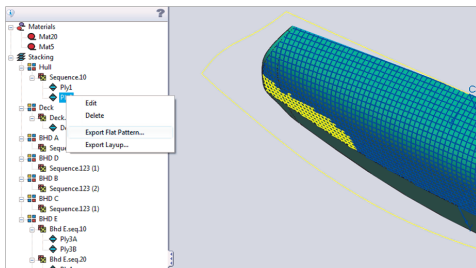
INTRODUCTION

Over the past year, the continued expansion in the use of high performance composites has kept Simulayt very busy despite the global recession. As airframe programs based on CATIA V5 Composites Design have moved to production, Advanced Fiber Modeler use has increased strongly as companies strive to minimise waste. We have also seen the rapid adoption of Composites Link as the concept of communication between Design and Analysis becomes mainstream. Beyond the traditional aerospace markets, we have been involved in several exciting new applications around the world, such as:

- a famous bicycle manufacturer selected Simulayt solutions for both design and analysis and we have responded by developing new fiber simulation algorithms needed for their production process.
- a leading car company has adopted our AFM and CL for use in a groundbreaking carbon electric car that is slated for production in much larger quantities than previous composites cars.
- a huge multinational expanding its wind energy division is now using Simulayt solutions to develop wind turbine blades.

In all these applications, the advanced nature of the applications has required that we enhance our products to meet user requirements and complement the capabilities of our partners' products. By uniquely partnering leaders in design and analysis domains, Simulayt brings innovative solutions to complex requirements.

COMPOSITES MODELER FOR SOLIDWORKS®



Simulayt has recently launched Composites Modeler for SolidWorks®, which provides fundamental composites design capabilities seamlessly integrated within SolidWorks®. This solution has even been a hit with companies needing to generate flat patterns in other fields besides composites! This tool is based on Simulayt's common Layup technology so the fiber simulation results and the transfer to analysis meet the excellent standards established by our existing products. We look forward to expanding our activities in the "professional" SolidWorks® domain alongside our extensive activities in the "enterprise" CATIA marketplace.

INTERESTING CUSTOMERS

We are an engineering company and so are always interested in new technologies and applications. An interesting new user of our solutions is Terrafugia of Woburn, MA, USA, who produce the Transition, a street-legal airplane. This vehicle is moving beyond previous concepts to practical use through the application of high performance composites, modern engines and computer-based avionics. We are reminded of how innovative and productive small teams can be with modern design and analysis tools.



EMPLOYEE NEWS



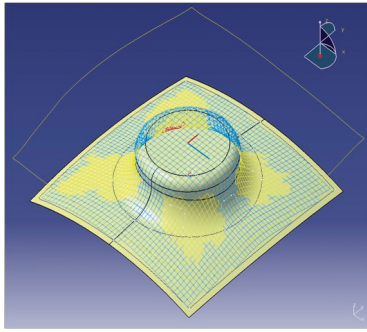
We were delighted to have Ian Cowley join Simulayt as Technical Consultant. Ian has many years of experience in composites design, analysis and manufacturing, having previously worked in the fields of Aerospace, Automotive, F1, Marine and Wind Energy for many famous names. As an experienced user of both CATIA V5 and SolidWorks®, together with key analysis solutions, Ian is perfectly placed to support our customers effectively and grow our solutions.

UPCOMING EXHIBITIONS

JEC Composites Show, Paris, 13-15 April 2010, Stand R73
SAMPE 2010, Seattle, 18-20 May 2010, Stand 124



Integrating the Design, Analysis and Manufacture of Composite Structures



ADVANCED FIBER MODELER FOR CATIA V5

Powerful and proven fiber simulation capabilities — seamlessly integrated within CATIA V5.

Release 1.0m now includes:

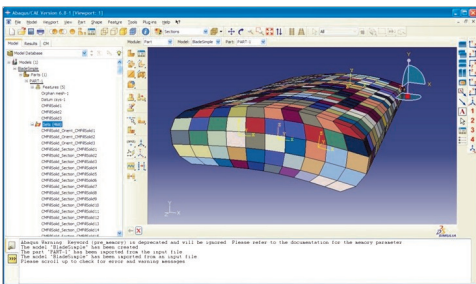
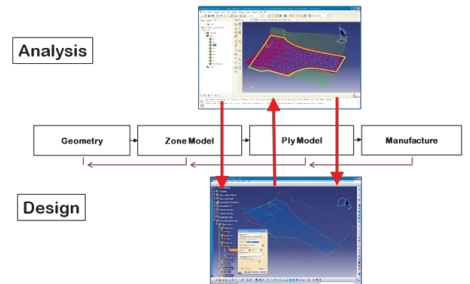
- Support for CATIA V5R20.
- Add parameters and display Steering Radius using new V5R19 infrastructure.
- Release of the FEFlatten solver on 32-bit and 64-bit Windows.
- Extrapolate producibility mesh to allow complete 2D-3D transfer.

COMPOSITES LINK FOR CATIA V5

Allows designers and analysts to communicate effectively during the composites development process — seamlessly integrated within CATIA V5.

Release 1.0i now includes:

- Support for CATIA V5R20.
- Ability to run Ply Export in batch mode to improve process efficiency.
- Allow mesh specification using an external mesh file.
- Export Nastran format files directly.



COMPOSITES MODELER FOR ABAQUS/CAE

Provides advanced ply-based model building and proven fiber simulation capabilities — seamlessly integrated within Abaqus/CAE.

Release 1.0i now includes:

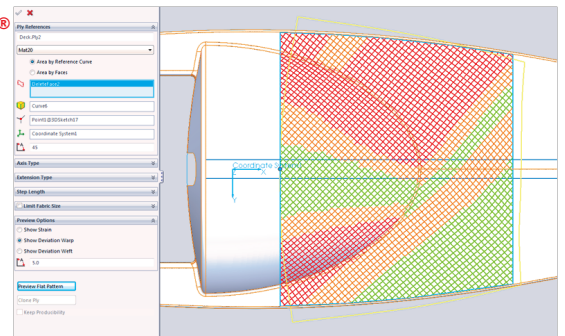
- Fill Solid using arbitrary Layup.
- Add warp and weft Deviation Plot.
- Support for multiple Rosette Transfer types.
- Set Inadmissible parameters for Order of Drape solutions.

COMPOSITES MODELER FOR SOLIDWORKS®

Provides advanced ply-based model building and proven fiber simulation capabilities — seamlessly integrated within SolidWorks®.

Release 1.0c now includes:

- Support for both SolidWorks® 2009 and 2010.
- Keep producibility mesh in SolidWorks® model.
- Support UD material definition and simulation.
- Add warp and weft deviation plots.

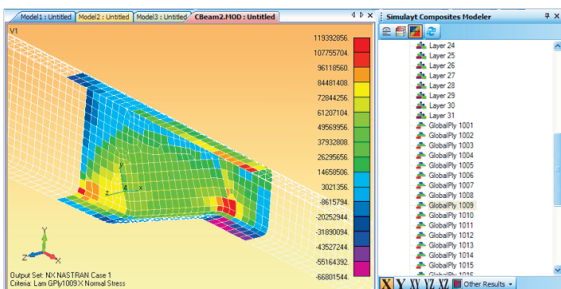


COMPOSITES MODELER FOR FEMAP

Provides advanced ply-based model building and proven fiber simulation capabilities — seamlessly integrated within FEMAP.

Release 1.0f now includes:

- Support for Femap 10.1.1
- Add Option to use Existing Material Orientations.
- Add warp and weft Deviation Plot.
- Set Inadmissible parameters for Order of Drape solutions.



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