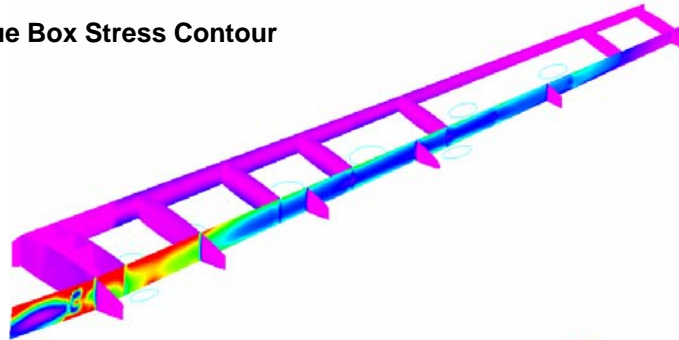
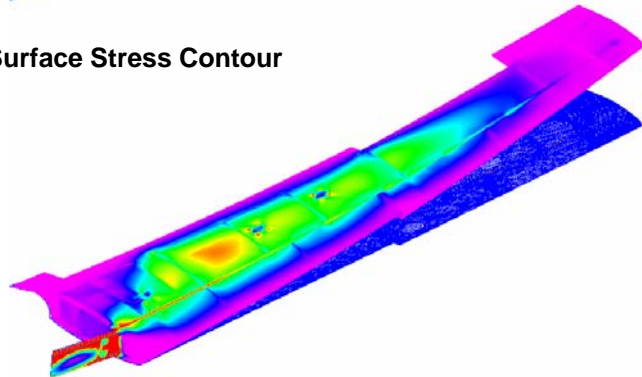


## Aerospace Case Study (Cirrus Design Corporation – Model SR22)

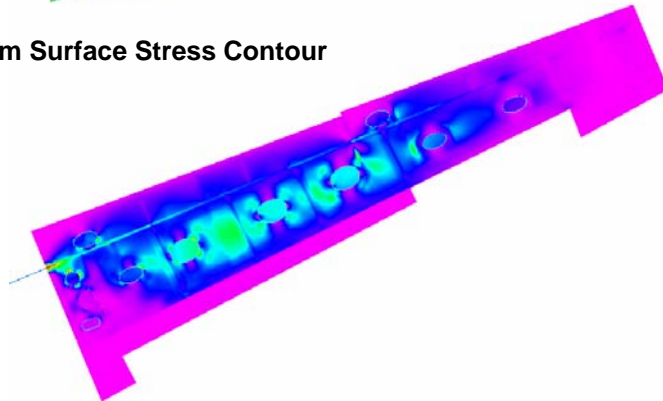
Torque Box Stress Contour



Top Surface Stress Contour



Bottom Surface Stress Contour



Cirrus Design Corporation ([www.cirrusaircraft.com](http://www.cirrusaircraft.com)) of Duluth, Minnesota used NEi Nastran to perform finite element analysis on the Model SR22 Wings. NEi Nastran assists Cirrus engineers in the preliminary designs of the wings. It supports substantiation of design along with testing which avoids redundant models and repetitive work function resulting in reduced analysis cycle time.

Engineers could more easily build half models using laminate, beam and plate elements to help reduce analysis time as well. This gives engineers fast and reliable results they need for field repairs, and in this case, stress notes for non-conformance reports.

NEi Nastran delivered advanced finite element analysis capabilities, complete access to legacy data, and superior technical support to Cirrus's engineers, while offering a significant reduction in life-cycle cost for the wing designs for their aircrafts.

**NEi Software, Inc.** is aggressively focused on commitment to the customer. Detailed documentation, customized on-site training, and comprehensive technical support ensures that you will see immediate return on your investment.

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