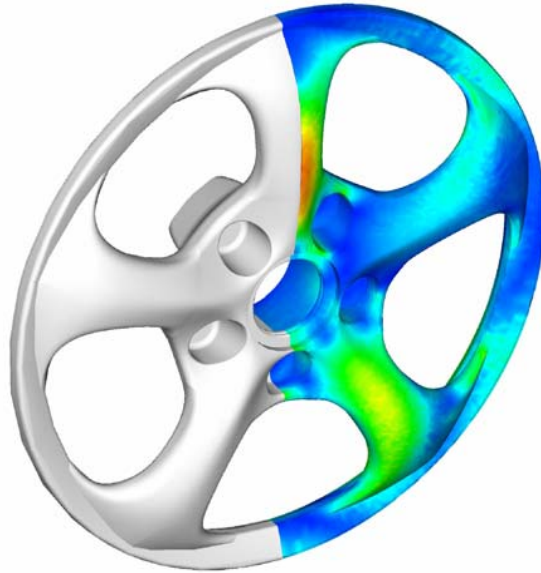




Automotive Case Study (Progressive Engineering Services – Racing Wheel)



Progressive Engineering Services in Bulverde, Texas used NEi Nastran to analyze the design of the center section of a 3 piece high performance wheel, which was custom built for an exotic sports car. Light weight and aggressive, this wheel was designed to handle the abuse of the racetrack. SFI requires the wheel to be able to endure extremely high loads for a relatively short duration of time (100,000 cycles). NEi Nastran was used to analyze the wheel to meet the intense SFI racing specifications. The model of the wheel was developed using approximately 34,000 grid points, 134,000 nodes, and 100,000 degrees of freedom. The contour plot (left) shows the stress on the wheel due to a 3g cornering load.

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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