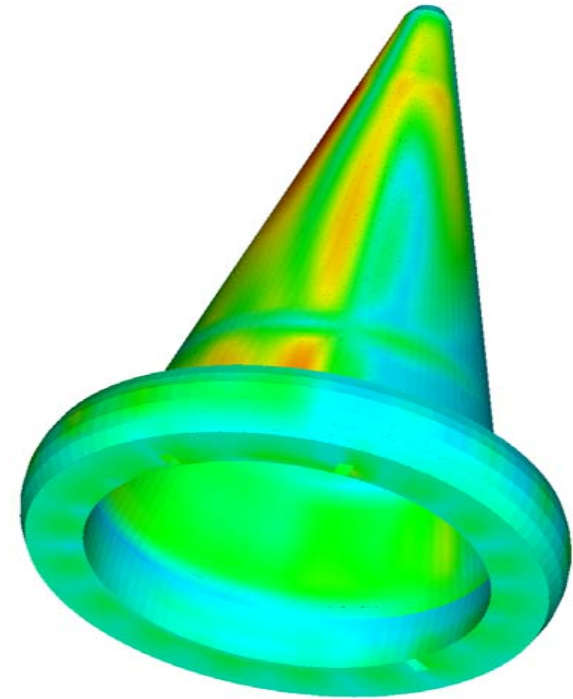


Civil Case Study (Theme Park Sorcerer's Hat)



NEi Nastran was used by a major themed entertainment company in Lake Buena Vista, Florida to analyze the new icon for their theme park, a giant Sorcerer's hat (left). The hat is constructed of composite fiberglass supported on a steel frame. The contour plot (right) shows the maximum ply normal stress due to wind loads, which are intensified due to its location relative to other structures in the park. Critical design changes were made to the steel framing as a result of buckling analysis performed using NEi Nastran. Buckling due to wind loads became a critical failure mode, which was overlooked in the initial design. The structure is over 350 feet tall and weighs over 156 tons.



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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