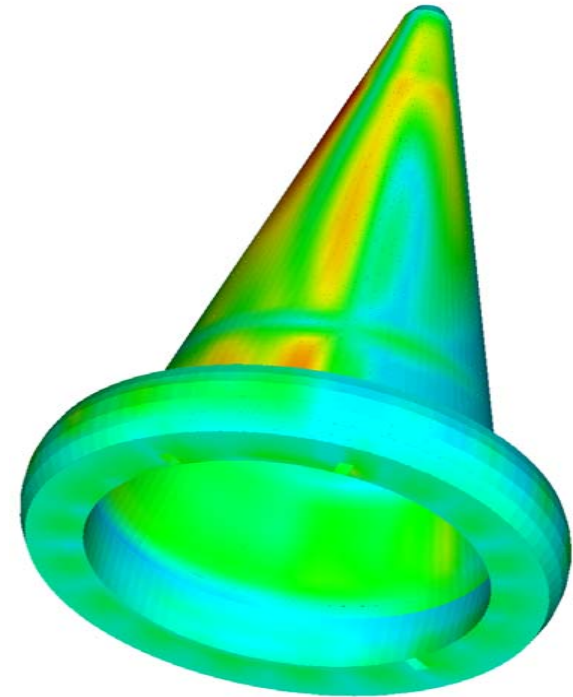


# NEiNastran

## Civil Applications (Theme Park Sorcerer's Hat)



NEiNastran 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 NEiNastran. 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.



**Noran Engineering, 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.

**For more information about our company or our products, please contact:**

**Headquarters:**

**Noran Engineering, Inc**

5555 Garden Grove Blvd., Suite 300

Westminster, CA 92683-1886

USA

Phone: 1.714.899.1220

Fax: 1.714.899.1369

Email: [info@noraneng.com](mailto:info@noraneng.com)

Website: [www.NENastran.com](http://www.NENastran.com)

**Europe:**

**SmartCAE**

Piazza della Gualchierina, 9

59100 Prato

ITALY

Phone: +39.0.574.404.642

Fax: +39.0.574.401.265

E-mail: [info@smartcae.com](mailto:info@smartcae.com)

Website: [www.smartcae.com](http://www.smartcae.com)

**Asia/Pacific:**

**Digital Solutions**

Kyoei Nakasuji Bldg., 3-7-18

Nakasuji, Asaminami-ku

Hiroshima 731-0122

JAPAN

Phone: +81.82.831.1190

Fax: +81.82.831.1193

E-mail: [post@digital-sol.co.jp](mailto:post@digital-sol.co.jp)

Website: [www.digital-sol.co.jp](http://www.digital-sol.co.jp)



NEiNastran *for Windows*  
From Noran Engineering, Inc.