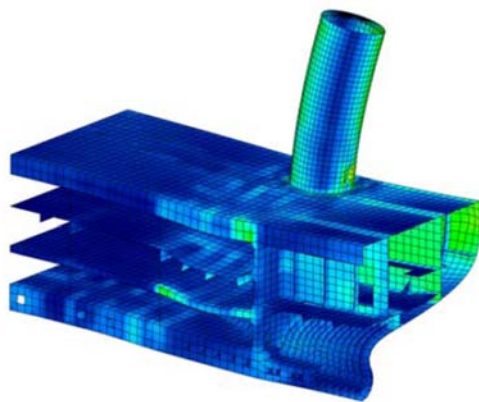


Press Release



New Simulation Capabilities in NEi Nastran Finite Element Analysis Software On Display at Offshore Technology Conference

Westminster, CA. 15 April 2009 – [NEi Software](http://www.NEiSoftware.com) (NEi), a global leader in the development of [Nastran Finite Element Analysis](http://www.NEiSoftware.com) (FEA) and engineering simulation software will be hosting booth #8172 at the Society for Petroleum Engineers' (SPE) Offshore Technology Conference (OTC) May 4-7 in Houston. NEi will be demonstrating new technology that significantly reduces the man-hours and software costs for [offshore industry simulations](http://www.NEiSoftware.com). Applications include offshore platforms, sub-sea structures, and support ships, as well as equipment such as valves, pumps, mooring systems, connectors, flexible joints, and pipelines. NEi is inviting engineers involved in offshore engineering to sign up prior to the show at www.nenastran.com/OTC2009 so material may be prepared that can address their specific application.



NEi Nastran contour stress plot of a crane foundation for an offshore supply vessel (OSV) courtesy of FTX Canada Marine Inc. The analysis considered vessel motion, cargo, crane, hydrostatic and environmental loads, and arrangement of tanks, holds, and openings.

www.NEiNastran.com

New technology of interest to engineering analysts in the offshore industry includes the following.

- [Automated Contact Generation](#) tools that remove the tedium and significantly cut the man-hours needed for modeling contact between discontinuous members in large complex shell structures like ships and platforms.

- Automated Surface Contact Generation (ASCG™) connects different parts without need for alignment or similar meshes.
- Automated Edge Contact Generation (AECG™) makes welded connections regardless of offsets and gaps between edges and faces, a common need when midsurfacing thin shell models.
- [Automated Impact Analysis](#) (AIA™) performs sophisticated collision simulations requiring only basic starting input data. Contact, time steps, and time duration between the two bodies are determined automatically and the modal frequencies and resultant accelerations are calculated.
- [Linear Contact Analysis](#) analyzes small deformations and movement like bolted connections and bearings with accurate solutions for this class of contact that are: 2 to 10 times faster, easier to use, more robust in solution convergence, and significantly less in overall cost than conventional full nonlinear solvers.
- [Design Optimization](#) finds solutions for problems which contain conflicting parameters, for example, structures that are both strong and light.
- Full material support covers concrete to composites and hyperelastic rubber.
- [Token System](#) makes available NEi Nastran and a portfolio of simulation software for the least possible cost for multiple users in larger organizations.
- NEi [Nastran 64-bit](#) for large scale analysis handles models over 50 million degrees of freedom. Plus, there is no up charge or extra cost for usage of multiple CPUs.
- [NEi Editor](#) an industry unique tool that boosts productivity by giving analysts greater control over FEA models and results.

About NEi Software (NEi)

NEi is a world leader in engineering software for analysis, simulation, and virtual testing. The core product NEi Nastran is a powerful, industry proven, Finite Element Analysis (FEA) solver that works with a variety of pre and post processors including in-house products Femap®, NEi Fusion™ and NEi Works™. See the website for applications and case studies in the maritime and offshore petroleum industry, as well as webinars, video demonstrations, tutorials, and White Papers on a range of engineering analysis and simulation topics.

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