

Press Release



NEi Software Demonstrates Nastran Simulation at Society of Automotive Engineers' Noise and Vibration Conference

Westminster, CA. 14 May 2009 – [NEi Software](#) (NEi) will demonstrate NEi Nastran structural analysis software for linear, nonlinear and dynamic simulation at the Society of Automotive Engineer's (SAE) Noise and Vibration Conference (Booth 114) in St. Charles IL, May 18-21. NEi's software allows engineers to build digital prototypes to virtually test structures and component parts before physical parts are fabricated. Engineers can also identify problem areas, optimize designs, and reduce time and money spent on prototypes and testing for automotive, aerospace, construction equipment, motorcycle, marine and recreational vehicles. Simulation with NEi Nastran provides greater Return on Investment (ROI) than competitive solutions because of higher process efficiency, linear and nonlinear analysis in one solver, and a lower cost of ownership.

NEi Software will be featuring technology in its core [Finite Element Analysis](#) (FEA) package, [NEi Nastran](#), along with other engineering software solutions like [Femap](#) by Siemens PLM Software. Technology of interest in these products includes the following features:



- [NEi Nastran Editor](#) is an industry unique tool that provides greater control over Nastran FEA models and results, and significantly increases productivity and results reliability. It includes a trade study generator, a basic optimization utility, visualization of results as they are generated during solving, and the ability to change key parameters mid-stream without stopping and restarting the job.
- [Vibration fatigue](#) for predicting life, damage and failure due to vibration.
- [Automated Surface Contact Generation](#) (ASCG™) sets up contact between discontinuous bodies and complex regions with support for legacy Nastran models.
- [Automated Edge Contact Generation](#) (AECG™) significantly improves productivity for shell type structures by automating connections with separated surfaces and edges and faces.
- [Automated Impact Analysis](#) (AIA™) provides a thorough and physically realistic simulation of impact because it takes into account surface contact, time duration of impact, and the vibration characteristics of the colliding bodies.

About NEi Software

NEi Software is a world leader in Nastran Finite Element Analysis (FEA), engineering simulation, and virtual test software. NEi Nastran is a powerful industry-proven solver that works with all major pre and post processor brands including Femap[®] by Siemens PLM Software, NEi Fusion[™] and NEi Works[™] for SolidWorks[®]. Engineers gain insight with digital prototypes, images, contour plots, graphs, and animations of linear and nonlinear structural stress, deformation, dynamics, vibration, kinematics, impact, heat transfer and fluid dynamic (CFD) simulations. The website features case studies in aerospace, automotive, maritime, alternate energy, sports, and consumer products with videos, webinars, tutorials, classes, and options for evaluation. Website: www.neisoftware.com | Telephone: 714.899.1220 | Email: info@neisoftware.com

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