

Press Release



For Immediate Release

Noran Engineering Launches V8.3 of NE/Nastran Finite Element Analysis Software

V8.3 Adds Powerful Enhancements Not Found in Other Nastran Products.

Westminster, CA. May 20, 2004. Noran Engineering, Inc. (NEi), a leader in developing Computer-Aided Engineering (CAE) software today launched V8.3 of its advanced NE/Nastran FEA (Finite Element Analysis) software.

NE/Nastran is part of Noran Engineering's complete suite of analysis software: linear and nonlinear statics, dynamics, heat transfer, fluid flow, fatigue, optimization and more. This easy-to-use, versatile solution handles complex structural, dynamics and heat transfer analysis problems on everything from laptops, desktop PCs to heavy-duty engineering workstations.

With Version 8.3, NE/Nastran performance advances on a number of key fronts for experienced analysts, including:

- New advanced dynamic solutions
- More robust shell element
- New spot weld element
- Solver support for parallel processing
- Faster Lanczos Eigensolver
- Substructuring and model reduction
- Model input load and boundary condition interpolation
- New aerospace and automotive productivity tools
- Plus, over 50 customer collaboration based enhancements

Tony Abbey, technical manager, Noran Engineering, commented; "Many of our clients are faced with ever larger and more complex simulation problems and Noran Engineering is committed to providing the best tools for these challenging analyses. We have been able to directly improve their productivity by listening to their analysis requirements, producing enhancements and putting them into this latest NE/Nastran V8.3 release. We are already positioning for new features in the 8.4 release. The future is exciting for our clients."



NE/Nastran for Windows
From Noran Engineering, Inc.

New features of note in NE/Nastran V 8.3 include Model Interpolation to allow mapping of data from one simulation mesh to another. The method can be used for 2D or 3D models with scalar or vector data such as temperatures from a heat transfer model or pressures from a CFD model mapped to a structural model. No alignment is required between the input data to be interpolated and the target mesh.

NE/Nastran V8.3 also features an aircraft specific tool, Tension-only Quad Elements, a new and unique feature for the industry which greatly enhances the productivity of airframe, wing, and fuselage analysis.

"The development of Tension-Only Quad Elements eliminates redundant models and repetitive work functions, resulting in reduced analysis cycle time." Said Gene Paulsen, Advanced Design Structures at Cessna Aircraft. "Cessna Engineers have been very impressed with the customer service received from Noran Engineering."

New advanced dynamic solutions incorporated within this product include Direct Frequency Response for more accurate and efficient analysis of high frequency systems, adaptive time stepping in Linear Direct Transient Response and Complex Eigenvalue Analysis for solving problems in acoustics, rotating bodies, and many other physical effects where damping or unsymmetric stiffness/mass is required.

New elements include a spot weld element (CWELD) which allows a weld connection to exist at any position in a shell mesh thus significantly improving productivity when developing body-in-white automotive models.

Support is now provided in V8.3 for substructuring and super element generation. Reduced models may be exported using DMIG and combined with other models.

NE/Nastran V8.3 is available now for evaluation and purchase. Prices start at \$2,900 for linear statics with steady state heat transfer.

About Noran Engineering, Inc.

Noran Engineering (NEi) leads the engineering software industry with its high-end analysis tools priced for wide scale use and an outstanding reputation for technical support. Its core product, NE/Nastran, performs structural, dynamic, and heat transfer finite element analysis (FEA) on very large, complex models while requiring only modest hardware resources. Of significance to today's market, NE/Nastran's unique code architecture permits its customers to specify enhancements which often can be implemented quickly and economically. To the astute FEA practitioner and CAE manager, this means NE/Nastran is a contemporary, adaptable, and extremely budget friendly software platform on which to base their company's critical analysis and new product development needs.

NEi offers a complete suite of analysis software: linear and nonlinear statics, dynamics, heat transfer, fluid flow, fatigue, and optimization. Since its launch in 1991, NE/Nastran has developed a diverse user base including aerospace, automotive, maritime, military, medical, and consumer product industries. NEi software runs on Windows, Linux, and UNIX platforms in both stand-alone and networked configurations.

For a demonstration of how NEi can solve your analysis problems and meet budget

constraints contact Noran Engineering, Inc. at 1.877.Nastran (U.S.), 1.714.899.1220 (U.S. and Int'l), info@noraneng.com, www.NENastran.com

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