



NEi Software Presents New Nastran Modal Analysis Tools at Shock and Vibration Symposium

Westminster, CA. 23 October 2008. NEi Software, a global leader in the development of Nastran finite element analysis (FEA) and engineering simulation software, will participate in the Shock and Vibration Information Analysis Center's (SAVIAC) 79th Shock and Vibration Symposium October 26-30 in Orlando, FL. NEi Software will present a technical paper on "Modal Selection Technique for Component Mode Synthesis", an enhanced methodology for performing dynamic analysis of very large FEA models measured in multi million degrees of freedom. In addition, NEi Software will conduct several tutorials on new features in its simulation software. The NEi Nastran Nonlinear course will address proper techniques for analyzing models with nonlinear geometry, materials, and elements. Software technology will be demonstrated that enhances nonlinear analysis in Nastran making it faster, easier, and closer to real world phenomena like true surface-to-surface contact and automated contact generation tools. The NEi Composites tutorial will demonstrate Progressive Ply Failure Analysis (PPFA™), an NEi Software tool that examines the residual strength after first ply failure in a laminate structure which allows engineers to mitigate catastrophic failure modes in parts optimized for strength-to-weight criteria. A comprehensive session on the Dynamic Design Analysis Method (DDAM) will explain the steps in determining the dynamic response of a structure to shock loading. Utilizing NEi Nastran's DDAM, users determine the effects of underwater explosions from sources like depth charges, mines, missiles, and torpedoes.

SAVIAC's annual Shock and Vibration Symposium is the leading forum for the structural dynamics and vibration community to present and discuss new developments and on-going research. The Symposium includes both classified and unclassified sessions. The classified sessions allow critical technology and classified research to be presented in closed forums of cleared US Government and government-contractor researchers. Topics covered at the symposium include: shock testing, weapons effects, air blast, ground shock, water shock, cratering, penetration, shock physics, earthquake engineering, structural dynamics, shock and vibration instrumentation, and experiment techniques. Over 200 technical papers are typically presented. Panel discussions address topics such as new software developments and accelerometer isolation problems. Tutorials provide up-to-date technology overviews by leading specialists.

About NEi Software

NEi Software is a global leader in Finite Element Analysis (FEA) and mechanical engineering simulation software for virtual testing. The core product, NEi Nastran, works with all major pre and post processors including Femap® by Siemens PLM and in house brands NEiFusion™ and NEiWorks™ for SolidWorks®. NEi Software allows engineers to virtually test air, land, and maritime vehicles and structures for stress, deformation, vibration modes, heat transfer, and other technical parameters at the

design stage before fabrication promoting innovation, improving quality, and saving time, money, and resources in re-designs, prototypes, and test.

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About SAVIAC

The Shock and Vibration Information Analysis Center (SAVIAC) is a jointly-funded activity sponsored by the Army, Navy, Air Force, DTRA, and the DOE laboratories and operated by HI-TEST Laboratories, Inc. in Richmond, VA. It serves as a central information resource for Government activities, contractors, and academics concerned with structural dynamics design, analysis, and testing, shock physics, and weapons effects. Website: www.saviac.org

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