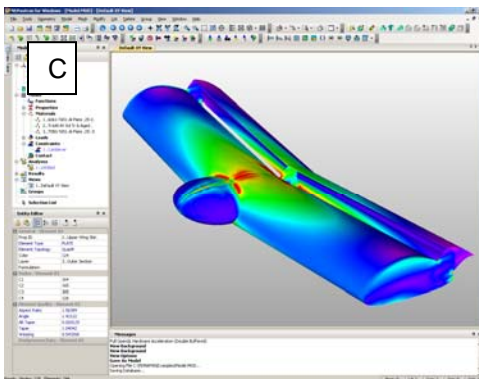


Simulation Software at Unmanned Air, Land and Marine Vehicle Conference Promotes Innovation, Faster Design Cycles, and Optimized Solutions

Westminster, CA. 27 May 2008 – Noran Engineering, Inc. (NEi), a global leader in the development of NEi Nastran finite element analysis (FEA) and engineering simulation will demonstrate new software at the Association for Unmanned Vehicle Systems International Conference (AUVSI) in San Diego, CA June 10-12. NEi's software portfolio allows engineers to virtually test air, land, and maritime vehicles and components for mechanical stress, deformation, vibration, thermal and other technical parameters at the design stage before prototypes or parts are fabricated. Engineering simulation benefits the overall design process by giving developers the tools to explore design alternatives, identify problems, optimize component function, and save time and resources in prototypes and test.



Simulation Software in UAV Development.

- A. Photo of prototype unmanned air vehicle (UAV). Innovative design uses cross flow fans for thrust and flow instead of conventional propeller and carbon composite construction
- B. CAD and FEA model.
- C. Screenshot of stress distribution on wing structure obtained with NEi Nastran Finite Element Analysis FEA software

www.NEiNastran.com

Images courtesy of Propulsive Wing LLC and Allred & Associates.

Examples of new virtual test technology from NEi includes Automated Impact Analysis (AIA™), composite material modeling and Progressive Ply Failure Analysis (PPFA™), Automated Surface Contact Generation (ASCG™), and Design Optimization. AIA is used for a variety of impact scenarios from military projectiles to drop testing of electronics like cellphones and laptops. PPFA provides insight into composite damage mechanisms so engineers can get the maximum benefit from this class of material. Composites are a frequent material choice in unmanned systems because of their exceptional performance characteristics like high strength to weight ratio and stealth. ASCG makes realistic simulation of contact in assemblies practical and affordable because it eliminates the tedious time consuming aspects in this task. Design Optimization finds solutions to problems that have competing parameters, for example, structures that must be both strong and light.

NEi is at Booth # 135 and invites attendees with an interest in virtual test software to sign up prior to the show at www.NENastran.com/AUVSI2008 so material may be prepared that can address your specific application.

About Noran Engineering, Inc. (NEi)

NEi is a global leader in finite element analysis (FEA) and simulation software for virtual testing of parts and products. NEi Nastran works with all major pre and post processors including Femap® by Siemens PLM and in house brands NEiFusion™ and NEiWorks™ for SolidWorks®. Engineers gain design insights early in the development process with graphic visualizations of parameters like stress, deformation, vibration modes, and heat transfer. Companies gain a competitive edge by improving their development process by making it faster and less costly while delivering products that are more innovative, reliable and higher quality. The website contains examples of applications by leading companies and video product demonstrations. Website: www.NEiNastran.com | Telephone: 714.899.1220 | Email: info@noraneng.com.

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