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Red Cedar Technology Releases HEEDS MDO 5.4 and HEEDS NP 1.0

Multidisciplinary and Nonparametric Optimization Software Tools for Engineers

East Lansing, MI (March 2, 2011) – Red Cedar Technology announced today the release of **HEEDS® MDO 5.4** (formerly HEEDS Professional), which introduces new features that streamline the design optimization process for engineers:

- Output portals for ANSYS Workbench and Nastran
- Input portals for Abaqus, ANSYS Workbench, LS-DYNA and Nastran
- Fast, efficient parallel design evaluations with HEEDS PARALLEL
- Direct integration with external queuing systems, including MSHPC
- Automatic checks for analysis completion and success
- Forming limit diagram (FLD) criteria

HEEDS MDO is a powerful software package that automates the design optimization process. With revolutionary search strategies available only in HEEDS MDO, you can uncover new design concepts that improve products and significantly reduce development costs. For more information about HEEDS MDO 5.4, visit http://www.redcedartech.com/products/heeds_mdo.

Red Cedar Technology has also released **HEEDS® NP**, a new software product for nonparametric optimization. HEEDS NP adjusts the surface shape of a 2D or 3D solid to minimize volume while satisfying stress and/or displacement constraints. Because HEEDS NP is a nonparametric optimization tool, you do not have to define design variables - the mesh is the design variable. HEEDS NP performs shape changes by moving the nodes around in the mesh. It adds mass where needed in regions of high stress and removes mass where possible in regions of low stress. Because the mass is added by moving existing nodes, predefined parametric shapes are not required. No elements are deleted from, or added to, the model.

Using HEEDS software products, designers can overcome the limits of human intuition and even professional experience. For more information about HEEDS MDO or NP, visit http://www.redcedartech.com.

About Red Cedar Technology
Red Cedar Technology improves and accelerates design processes for companies facing complex engineering challenges. Our design optimization software and consulting services provide engineers with the expertise and technology to reduce product development time and to achieve significant productivity gains during the design process. Product development teams worldwide use our expertise to design safer cars, engineer life-saving

biomedical instruments and devices, and develop innovative structures for air travel and space exploration, among many other groundbreaking applications. For more information, visit www.redcedartech.com.

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