

➤ BEST PRODUCT WINNERS



Choosing the winners of this year's *Design News* Golden Mousetrap Awards from a record number of entries in six major categories was no easy task. Here are the winners with an in-depth look at their significance to design engineers.



Category	Company	Product
Electronics		
Components, Hardware & Interconnect	Metalink Ltd.	MtW 8171B Chipset
Sensors & Vision	Infineon	SP35 Tire Pressure Sensor
Analog Control	National Semiconductor	LM98714 Analog Front End
Power Management & Control	Texas Instruments	F28044 Digital Signal Controller
Test & Measurement	Agilent	N6705A DC Power Analyzer
Digital/Embedded Control	Freescale Semiconductor	4-Mbit MRAM
Fastening, Joining and Assembly		
Fastening, Joining and Assembly Components	Ultra-Lok	Advanced Locking Fastener
Fluid Power		
Connectors	Eaton Corp.	STC EZ-Torque
Components	Ace Controls	MC 5M
Motion Control/Automation		
Drives	Siemens Energy & Automation	SINAMICS S120 Drives
Feedback Devices	U.S. Digital Corp.	MAE3
Motors	New Scale Technologies	SQUIGGLE SQL-1.5-6
Rapid Prototyping		
3D Printing	Z Corp.	Zprinter 450
Software/Hardware		
Hardware	Skyworks Solutions Inc.	Hermetic Surface Mount Package
Analysis & Calculation Software	Noran Engineering Inc.	NEiFusion
CAD/PLM	Dassault Systèmes	3DLive

NEIFUSION, NORAN ENGINEERING INC.

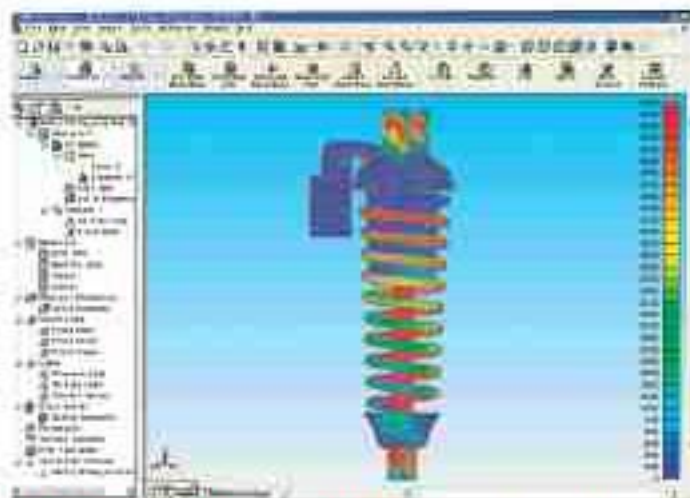
The Every Man's FEA

NEIFusion targets design engineers, not simulation specialists

Looking for finite element analysis (FEA) capabilities, but aren't an FEA simulation specialist? Look no further than NEiFusion, Noran Engineering Inc.'s new approach to engineering analysis and simulation software.

The FEA program is designed specifically for engineers doing design and product development — not analysts and simulation specialists. NEiFusion takes a 3D, feature-based, paramatic CAD approach, making it feel more familiar and friendly to most within a product development team.

"Other analysis and simulation products out there are oriented towards specialists — people who spend eight hours a day doing analysis as their job," says Dennis Sieminski, marketing manager for Noran Engineering. "This product changes FEA to meet designers orientation — it's a more familiar and comfortable environment to work in."



NEiFusion takes a 3D, feature-based paramatic CAD approach.

NEiFusion combines a parametric FEA modeler, comprehensive pre- and post-processing capabilities and Nastran solvers to create an analysis package for small and medium-size companies and individual engineers — not big corporate environments, Sieminski says. In addition, its \$4,995 pricetag makes it more affordable for individuals and smaller firms compared with traditional FEA packages, which can cost upwards of \$15,000.

For engineers, more accessible and affordable FEA software opens the door to doing virtual testing earlier and more often in the design process. NEiFusion presents design engineers with an easy-to-use tool to assess the performance of their parts before prototypes are built, which aids in reducing design cycle times and boosting quality improvements.

The software's Pre-Processor module incorporates a comprehensive element library, meshing capabilities and an extensive materials library to insure real world fidelity. Its Post-Processor component provides a wide variety of images and graphs to view simulation results and is equipped with file sharing and import/export capabilities for easily sharing FEA models. NEiFusion also employs the same NEiNastran Solvers found in Noran's other analysis products. For more information, go to <http://rbi.ims.ca/5404-585>.

— Beth Stackpole