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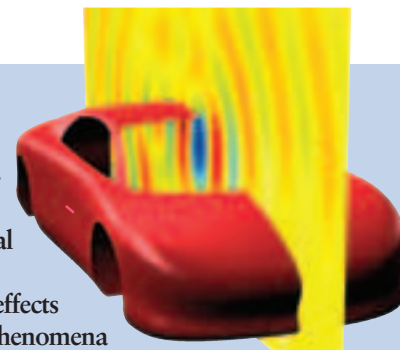
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CAD Chronicle

RF simulation software module

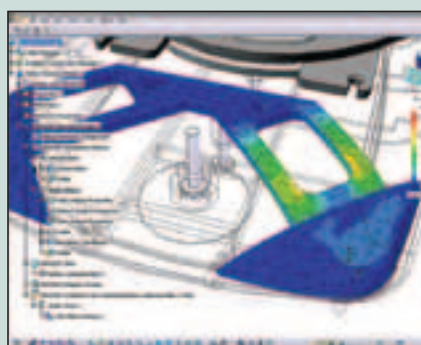
The RF Module for Comsol Multiphysics enables simulation capabilities for the design of RF, microwave and photonics components, and makes it possible to study components and systems that deal with propagating electromagnetic waves. With the module, users can consider different multiphysics effects including the interconnection of electromagnetic phenomena with heat transfer and structural mechanics. For example, it is possible to see what effect heating has upon the frequency response of a microwave filter.



comsol.com

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Simulation for product lifecycle management



Dassault Systemes has announced Version 2.3 of Abaqus for CATIA V5 Product Lifecycle Management (PLM) software is said to take advantage of advances in Abaqus Version 6.6 and CATIA V5 R16 such as contact modeling (sliding between parts), connections (spot, seam and surface weld modeling) and usability. The integration enables design engineers and analysis specialists to use the same FEA methods and models within CATIA V5.

simulia.com

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Shop-floor production design management



UGS Corp. has announced Tecnomatix Production Management portfolio, a line of manufacturing shop-floor applications and software to integrate production management with a company's overall PLM process. The software portfolio is said to effectively expand the value of PLM by bridging the gaps between product design and production processes, enabling manufacturers to accelerate product launches, streamline regulatory compliance, facilitate lean manufacturing and implement continuous process improvement.

ugs.com/tecnomatix

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Probing software uses CAD models

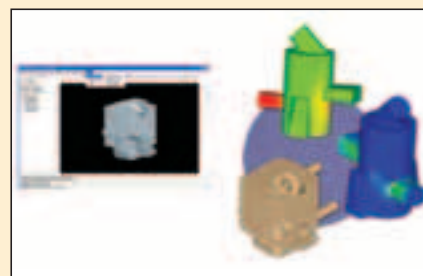
Renishaw Inc. has announced PC-based inspection software for machine tools said to make it easy to gain full advantage of on-machine probing. The On Machine Verification (OMV) software is specifically written for machine tool inspection of prototypes, complex and large parts, multi-operation parts, and die and mold parts, employing original CAD data. The OMV enables off-line programming and graphical simulation of inspection routines without specialized programming or probing knowledge, using the CAD model.



renishaw.com

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Streamlined link between design and simulation



Fluent Inc. has announced Fluent Connection 1.1 software that helps streamline the process of creating simulation models based on design data from various CAD packages. Connection products operate within the CAD system user environments and provide tools for checking and conditioning the 3D geometry model in order to ensure that it has been properly prepared for the next step in the simulation process.

ansys.com

Info Card 335

Portable scanning system yields 3D object model



The ScanWorks portable scanning system and the ScanWorks V5 sensor from Perceptron captures geometrically complex areas at up to 458,000 points/s at point-to-point resolution up to 12 µm. Maximum width of field is 140 mm and maximum depth of field is 110 mm. Processing in real time yields a 3D object model details of form, features, sizes, textures and other qualities.

perceptron.com

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