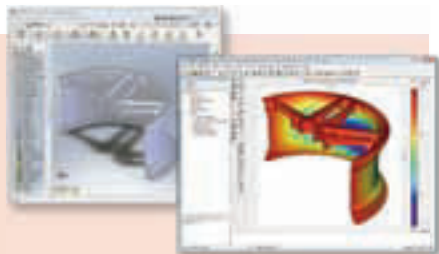# CAD Chronicle

Simulation tie-in for SolidWorks

SolidWorks has named multiphysics simulation software developer **COMSOL** as one of its select Solution Partners. The program provides Solid-Works 3D CAD users with access to integrated products and services that can further boost productivity. In this case, COMSOL Multiphysics includes a feature in the CAD Import Module called the SolidWorks Live Connection, a bidirectional link that allows users to modify geometry in the CAD environment and automatically transfer these changes to a linked multiphysics model based on that geometry.
comsol.com　　　　　　　　　　**Info Card 334**
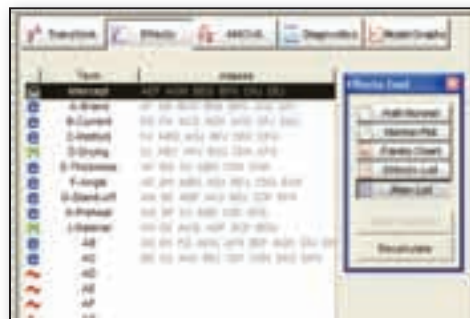
Large assembly design

UGS Corp. has announced Version 20 of Solid Edge software, its 3D CAD product. V20 improves supply chain collaboration through integration with the new Teamcenter Service Oriented Architecture. V20 also introduces new translators to help users transition from AutoCAD to Solid Edge, collaborate with CATIA V5, and read the STL file format. A Zones feature has been added to its assembly modeler, as well as Part Feature grouping.
solidedge.com/v20　　　**Info Card 333**

Design of experiments

Stat-Ease, Inc. has announced Design-Ease, Version 7.1. The software sets up and analyzes general and two-level factorials that identify the critical factors for improvement of products and processes. New in Version 7.1 is an upfront power calculation for factorial designs, "Min-Run Res V" designs available for 6 to 50 factors, bookmarks for reports with a toolbox to facilitate selection, display grid lines on 3D-graph backplanes, and, the ability to save graphs to files in enhanced Windows metafile (EMF), PNG, TIFF, GIF, BNP, JPEG, and encapsulated Postscript (EPS) formats.
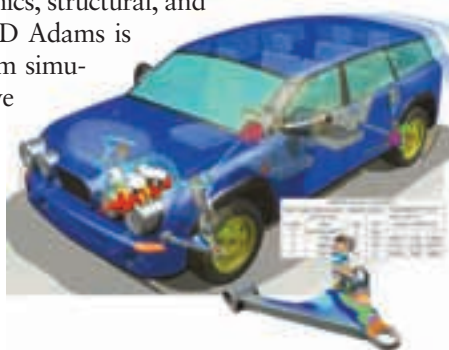**statease.com**　　　　　　　**Info Card 335**

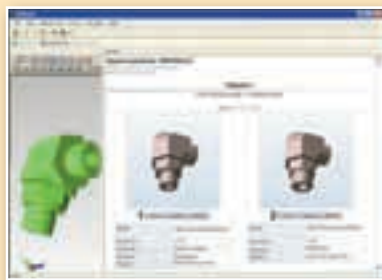## Mechatronics analysis integrated into simulation

MSC.Software Corp. has released MD Adams, an addition to its MD Solutions suite, in order to add integrated multi-body dynamics, structural, and controls systems simulation capabilities. MD Adams is said to enable powerful extensions to system simulation including component flexibility, active control systems and frequency response prediction. The simulation capabilities are said to result in fewer physical prototypes and faster design cycles thereby enabling time to market and right to market.
mscsoftware.com　　　　　**Info Card 337**

Shape-based searching

The latest release of CADSEEK Polaris, shape-based CAD search engine from **iSEEK Corp.,** is said to have enhanced its core shape algorithms for greater accuracy and speed, and extend the technology to hunt down similar individual parts from an assembly. The software is able to keep track of components that comprise an assembly. A user can highlight a single part within an assembly and initiate a CADSEEK search, locating replacement parts.
iseekcorp.com　　　　　　**Info Card 336**

Bidirectional CAD-ERP

Elmo Solutions has introduced Agni Link, software designed to ensure synchronization between CAD/PLM and MRP/ERP data. It is usable with a variety of CAD platforms, including: Solid-Works, Autodesk Inventor, AutoCAD, AutoCAD Electrical, Mechanical Desktop and AutoCAD/Mechanical. When any component, subassembly or assembly is processed, Agni Link determines where appropriate metadata is sent, and updates it accordingly.
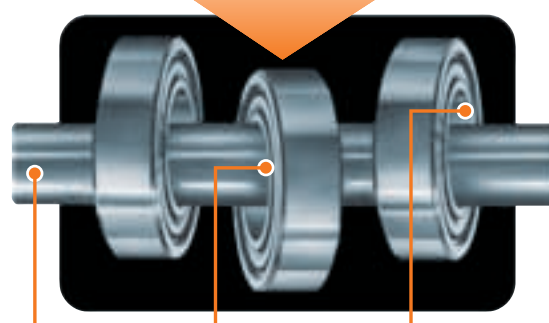**elmosolutions.com**　　　　**Info Card 338**