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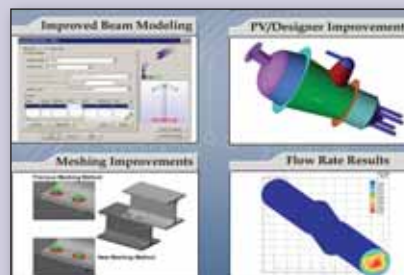
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CAD Chronicle

NX 6 includes synchronous technology
Siemens PLM Software has announced Version 6 of NX software incorporates synchronous technology to deliver up to a 100x faster design experience than previously, the company says. Synchronous technology combines with the existing NX capabilities so data does not need to be translated or rebuilt, merging parametric and history-free approaches to speed design. The software also delivers more than 350 user-driven enhancements encompassing 10 different applications, including FE meshing tools.
www.siemens.com/nx

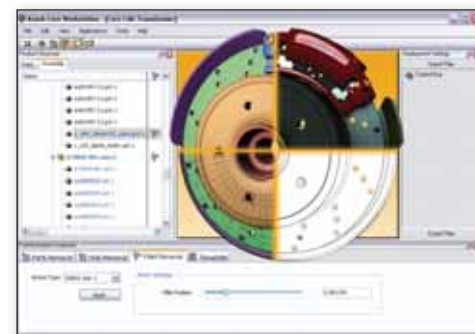


Finite element analysis modeling and simulation



Algor, Inc., has announced that Algor V22 significantly upgrades modeling, simulation and results evaluation and presentation. Features include: expanded support for 64-bit systems, now including pre-processing and post-processing; analysis of open channel flow, involving a free surface between a flowing fluid and a gas above it; a multifrontal massively parallel solver for distributed memory systems; damage analysis for 2D plane stress elements; and a software wizard to automatically calculate and apply remote loads to a stress model.
www.algor.com

3D CAD platform prepares design data for applications



Anark Corp. has announced Anark Core 2.0, its automated 3D CAD transformation platform, adds expanded conversion, transformation, and automation capabilities to cost-effectively prepare 3D product design data for visualization, simulation, CAE, and supply-chain-data-exchange applications. Unlike conventional CAD tools and translators, Anark Core is said to enable users to automate the modification of 3D product structure and geometry, and export revised product data into high-precision B-rep and lightweight mesh formats.
www.anark.com/core/

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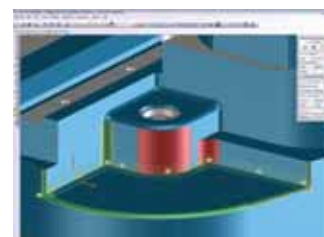
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Explicit 3D CAD system increases productivity

PTC has announced CoCreate 2008 – the latest release of its explicit CAD, PDM and collaboration software. Enhancements include: revised pattern capabilities – creates patterns faster with improved user guidance and new options for irregular patterns and selective suppression of features within a pattern; more flexible work-in-progress capture to allow users to save daily work and "what if" scenarios, even with multiple revisions of locked parts and assemblies loaded into a session; shaded and rendered drawing views; enhanced surface editing capabilities; and, reductions in the number of repetitive steps when modifying components with cylindrical geometry.
www.cocreate.com



Surface and volume mesh



Ansys has released version 5.0 of its TGrid advanced mesh generation software. The technology is a specialized pre-processor for fluid flow analysis. It is used to create large unstructured tetrahedral and hex-core meshes for complex geometry required for the computational analysis of fluid flow. The version introduces new tools and enhanced capabilities to generate high-quality meshes more efficiently.
www.ansys.com

Product documentation from 3D solid models



QuadriSpace has announced Document3D Suite, a software package that does not require multiple programs to publish final 3D documents. The software is a patented integration of 3D tools and document authoring tools that permits import of SolidWorks files directly. Once the SolidWorks 3D model is imported at document, it can then be created and published.
www.quadrispace.com